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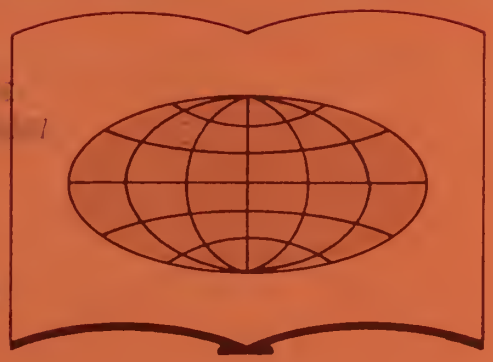

Volume 4 Number 19
September 13, 1968

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PESTICIDES DOCUMENTATION BULLETIN

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Volume 4
September 13, 1968
Number 19

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

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Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

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In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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S A Kulik

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F Zumpt
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A N Alexeiev V M Safianova
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E Amante
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ORGANOTHIOCYANATES AS INSECTICIDES AND CARBAMATE SYNERGISTS.
N Bakry R L Metcalf T R Fukuto
J Econ Entomol 61(5):1303-1308 REF
15 Oct 1968 421 J822
Biochemistry, Carbamates, Carbaryl, Chemical control (insects), Insecticides, Musca domestica, Organic compounds, Tables (data).

17786-68
PHOTOINHIBITORY FUNCTION OF THE DORSAL OCELLI IN THE PHOTOTACTIC REACTION OF THE MIGRATORY LOCUST LOCUSTA MIGRATORIA L.
C K Barry R Jander
Nature 217(5129):675-677 REF
17 Feb 1968 472 N21
Experimental insects, Eyes, Insect physiology, Locusta migratoria, Photoperiodism, Photosensitization, Phototropism, Research.

17787-68
ONCOGENESIS IN THE (TU) Y2V;VG STRAIN OF DROSOPHILA MELANOGASTER.
M A Benjaminson
Diss Abstr Sect B 29(1):56B
Jul 1968 Z5055.U49D53
Chromosomes, Drosophila melanogaster, Genes, Hereditary diseases, Insect diseases, Oncogenic viruses, Temperature.

17788-68
EFFECTS OF JUVENILE HORMONE ON PROTEIN SYNTHESIS DURING THE METAMORPHOSIS OF THE POLYPHEMUS SILKMOTH.
M Blumenfeld
Diss Abstr Sect B 29(2):481B-482B
Aug 1968 Z5055.U49D53
Antheraea polyphemus, Hormones, Insect morphology, Metamorphosis, Proteins.

17789-68
SEX RATIO IN PUPAE OF THE YELLOW-STRIPED ARMYWORM.
D G Bottrell
J Econ Entomol 61(5):1470-1471
15 Oct 1968 421 J822
Experimental insects, Prodenia ornithogalli, Pupae, Research, Sex.

17790-68
FIELD STUDIES OF SEX ATTRACTION IN THE BOLL WEEVIL.
J R Bradley D F Clower J B Graves
J Econ Entomol 61(5):1457-1458
15 Oct 1968 421 J822
Anthonomus grandis, Experimental insects, Insect behavior, Insect traps, Pheromones, Research, Sex attractants.

17791-68
STUDIES OF CASTE DIFFERENTIATION IN MYRMICA RUBRA L. 9. MATERNAL ENVIRONMENT AND THE CASTE BIAS OF LARVAE.
M V Brian A F Kelly
Insectes Sociaux 14(1):13-24
Mar 1967 421 IN79
Environment, Insect biology, Insect eggs, Larvae, Metamorphosis, Myrmica rubra, Photoperiodism, Temperature. Italian and French summaries

17792-68
NOTES ON MICROANALYTICAL TECHNIQUES IN THE ANALYSIS OF FOODS FOR EXTRANEOUS MATERIALS.
P M Brickey J S Gecan J J Thrasher W V Eisenberg
Ass Offic Anal Chem J 51(4):872-876
Jul 1968 381 AS7
Autoclaves, Color, Entomology, Ethylenediaminetetraacetic acid, Food, Laboratories, Microbiology, Polyethylene, Sampling (statistics), Tissues.

17793-68
MECHANISM OF LOCUST JUMPING.
R H J Brown
Nature 214(5091):939
27 May 1967 472 N21
Acrididae, Experimental insects, Insect anatomy, Insect physiology, Locomotion, Motion pictures, Muscles, Research.

17794-68
LABORATORY PROPAGATION OF MUSCIDIFURAX RAPTOR ON FACE FLY PUPAE.
R P Burton E C Turner
J Econ Entomol 61(5):1380-1383 REF
15 Oct 1968 421 J822
Experimental insects, Insect rearing, Musca autumnalis, Muscidifurax raptor, Ovulation, Parasitic insects, Pupae.

17795-68
THE INFECTION OF BOOPHILUS MICROPLUS WITH BABESIA BIGEMINA.
L L Callow
Parasitology 58(3):663-670
Aug 1968 448.8 P21
Babesia bigemina, Biological control (insects), Boophilus microplus, Helminthiasis, Insect morphology, Ixodides, Parasitism, Research.

17796-68
SELECTIVE RECOVERY OF VOLATILE PRODUCTS FROM HOUSE FLIES TREATED WITH RADIOACTIVE INSECTICIDE CHEMICALS AND SYNERGISTS.
J E Casida S P Shrivastava E G Esaac
J Econ Entomol 61(5):1339-1344 REF
15 Oct 1968 421 J822
Carbon dioxide, Carbon isotopes, Experimental insects, Injections, Insecticides, Metabolism, Musca domestica, Organic compounds, Radioactivity, Research.

17797-68
CHEMICAL STERILIZATION OF THE STABLE FLY STOMOXYS CALCITRANS (LINNE), WITH METEPA AND HEMPA.
J J Castro Umana
Diss Abstr Sect B 29(1):225B
Jul 1968 Z5055.U49D53
Biochemistry, Chemical control (insects), Chemosterilants, Experimental insects, Hempa, Insect cages, Metepa, Research, Stomoxys calcitrans.

17798-68
METABOLISM OF C14-LABELED HEMEL IN MALE HOUSE FLIES.
S C Chang A B DeMilo C W Woods A B Borkovec
J Econ Entomol 61(5):1357-1365
15 Oct 1968 421 J822
Biochemistry, Biological control (insects), Carbon isotopes, Chemosterilants, Hemel, Injections, Metabolism, Metabolites, Musca domestica.

17799-68
CONTENT AND SYNTHESIS OF GAMMA AMINOBUTYRIC ACID IN THE LARVAL BRAIN OF DROSOPHILA MELANOGASTER.
P S Chen B Widmer
Experientia 24(5):516-517
15 May 1968 475 EX7
Amino acids, Brain, Drosophila melanogaster, Insect biochemistry, Nervous system. German abstract

17800-68
COMPARATIVE TOXICITY (MAMMALIA, INSECTA, ACARINA) OF RECENT S,S-DIMETHYL S-BENZYL DERIVATIVES SUBSTITUTED FOR TRI- AND TETRATHIOPHOSPHORIC ACIDS. (FR)
J Cheymol P Chabrier T N Thanh A Thizy D Demozay D Pillon
Acad Sci Compt Rend Ser D Sci Nat 264(22):2597-2599
29 May 1967 505 P21
Acarina, Insects, Mammals, Phosphoric acid esters, Toxicology.

17801-68
ECOLOGY OF INSECT SWARMS. V. MOVEMENT OF INDIVIDUAL MIDGES, ANARETE PRITCHARDI, WITHIN A SWARM.
H C Chiang
Entomol Soc Amer Ann 61(3):584-587
May 1968 420 EN82
Anarete pritchardi, Cecidomyiidae, Insect flight.

17802-68
TEMPERATURE RELATIONSHIPS OF THE DEVELOPMENT OF NORTHERN CORN ROOTWORM EGGS.
H C Chiang V Sisson
J Econ Entomol 61(5):1406-1410
15 Oct 1968 421 J822
Diabrotica longicornis, Experimental insects, Insect eggs, Insect pests, Research, Soil temperature, Tables (data), Temperature, Time.

17803-68
ACCUMULATION OF GLYCINE IN THE FAT BODY OF THE SILKWORM, BOMBYX MORI L.
C Chitra M B Shyamala
Nature 216(5113):386-387
28 Oct 1967 472 N21

Absorption, Amino acids, Bombyx mori, Culture media, Fat body, Glycine, Intestines, Kinetin, Proteins, Radioactivity, Research, Tissues.

17804-68
A COMPARATIVE STUDY OF SALIVARY GLAND CHROMOSOME ASYNAPSIS IN TUMORIGENIC AND CLOSELY RELATED NON-TUMORIGENIC STRAINS OF DROSOPHILA MELANOGASTER.
S E Cohen
Diss Abstr Sect B 28(11):4429B
May 1968 Z5055.U49D53
Chromosomes, Drosophila melanogaster, Insect cultures, Insect ecology, Insect genetics, Insect physiology, Larvae, Research, Salivary glands (insects).

17805-68
LATEST RESEARCH PLANS ON THE PROBLEM OF COCKROACH RESISTANCE.
W J Collins
Pest Contr 36(6):23,25-26
Jun 1968 449.8 EX8
Blattella germanica, Insect rearing, Insecticide resistant insects.

17806-68
ALATE APHID SPECIES CAPTURED IN YELLOW PANS.
B F Coon J O Pepper
J Econ Entomol 61(5):1472-1473
15 Oct 1968 421 J822
Aphididae, Insect collecting equipment, Insect traps, Population, Research.

17807-68
POLYGENIC CONTROL OF ALDEHYDE OXIDASE AND XANTHINE DEHYDROGENASE IN DROSOPHILA.
J B Courtright
Diss Abstr Sect B 29(2):483B
Aug 1968 Z5055.U49D53
Aldehyde oxidase, Biochemistry, Drosophilidae, Insect physiology, Xanthine dehydrogenase.

17808-68
ON THE BIOLOGY OF SEVERAL TRECHINAE AND SPHODRINAE. (INSECTA, COLEOPTERA). (FR)
S Deleurance
Acad Sci Compt Rend Ser D Sci Nat 263(23):1817-1819
06 Dec 1967 505 P21
Coleoptera, Insect morphology, Insect physiology, Ovaries.

17809-68
THE FORMATION OF THE CUTICULAR RIDGES IN THE LARVAL PHARYNX OF THE BLOWFLY (CALLIPHORA VICINA R.-D.).
V M Dowding
Parasitology 58(3):683-689
Aug 1968 448.8 P21
Calliphora vicina, Cuticle, Cytoplasm, Electron microscopy, Insect physiology, Insect rearing, Larvae, Methodology, Pharynx.

17810-68
CORRECTION COEFFICIENTS FOR PROGNOSING THE DEVELOPMENT OF INSECTS BY SUMS OF EFFECTIVE TEMPERATURES (AGROTIS SEGETUM SCHIFF TAKING OF EXAMPLE). (RUS)
T S Druzhelyubova L A Makarova
Zool Zhur 47(1):73-78 REF
Jan 1968 410 R92
Agrotis segetum, Insect physiology, Noctuidae, Statistical methods, Temperature. English and russian abstract
Abstract

17811-68
TESTS OF GENETIC SYSTEMS FOR THE STUDY OF THE EFFECTS OF DNA IN DROSOPHILA MELANOGASTER.
W F Duggleby
Diss Abstr Sect B 29(1):58B-59B
Jul 1968 Z5055.U49D53
Deoxyribonucleic acid, Drosophila melanogaster, Insect genetics, Research.

17812-68
STUDIES ON THE BIOLOGICAL PROPERTIES OF TOXOPLASMA GONDII IN THE BODY OF INSECTS, USING PEDICULUS HUMANUS L. AS TEST ANIMALS.
J Dutkiewicz
Acta Parasitol Polon 14(15-27):187-200 REF
30 Jun 1966 436.8 AC8
Histology, Insect vectors, Pediculus humanus, Toxoplasmosis. Polish and english abstract
Abstract

17813-68
STUDIES ON THE MORPHOLOGY AND BIOLOGY OF LECANIUM FLETCHERI CKLL. (HOMOPTERA, COCCOIDEA) AND RELATED SPECIES.
A Dziedzicka
Zool Pol 18(1):125-165 REF
1968 410 Z712
Entomology, Insect biology, Insect identification, Insect morphology, Lecanium fletcheri, Parasitism, Research, Zoogeography. Russian and Polish summaries

17814-68
INFLUENCE OF REPELLENCY ON THE EFFICACY OF BLATTICIDES. IV. COMPARISON OF FOUR COCKROACH SPECIES.
W Ebeling D A Reierson R E Wagner
J Econ Entomol 61(5):1213-1219
15 Oct 1968 421 J822
Biochemistry, Blatta orientalis, Blattella germanica, Chemical control (insects), Experimental insects, Insect repellents, Insecticides, Periplaneta americana, Research, Supella supelleetilium.

17815-68
ELECTROPHORETIC VARIATION OF PROTEINASE IN THE DIGESTIVE JUICE OF THE SILKWORM, BOMBYX MORI L.
M Eguchi N Yoshitake
Nature 214(5090):843-844
20 May 1967 472 N21
Bombyx mori, Breeding, Digestion, Electrophoresis, Enzymes, Genes, Insect genetics, Polymorphism, Proteinases, Secretion.

17816-68
DEFENSE MECHANISMS OF ARTHROPODS. XXI. FORMIC ACID AND N-NONYL ACETATE IN THE DEFENSIVE SPRAY OF TWO SPECIES OF HELLUOMORPHOIDES.
T Eisner Y C Meinwald D W Alsop J E Carrel
Entomol Soc Amer Ann 61(3):610-613 REF
May 1968 420 EN82
Arthropoda, Carabidae, Formic acid, Glands (insects), Nonyl acetate, n-, Secretion, Spraying.

17817-68
ECOLOGICAL CHARACTERISTICS OF THE DIAPAUSE OF THE PHYTONOME OF THE LUZERNE HYPERA VARIABILIS. (COL. CURCULIONIDAE). (FR)
K El M'Saddia
Soc Entomol France Ann 4(2):339-348 REF
1968 420 F84
Curculionidae, Diapause, Hypera postica, Insect ecology, Photoperiodism, Temperature. French and English summaries
Abstract

17818-68
SOME EFFECTS OF GAMMA RADIATION ON THE TOBACCO BUDWORM HELIOTHIS VIRESCENS (FABRICIUS).
E S I El-Sayed
Diss Abstr Sect B 29(2):644B-645B
Aug 1968 Z5055.U49D53
Gamma rays, Heliothis vireseens, Insect physiology, Irradiation, Tobacco.

17819-68
A SIMPLIFIED FIELD CAGE FOR TRAPPING PINK BULLWORM ADULTS.
J J Ellington J F Norris J Durkin
J Econ Entomol 61(5):1468-1469
15 Oct 1968 421 J822
Cultural control (insects), Insect cages, Insect collecting equipment, Insect traps, Pectinophora gossypiella.

17820-68
MECHANICAL AND ELECTRICAL ACTIVITY IN THE INDIRECT FLIGHT MUSCLES OF THE HONEY BEE.
H Esch J Bastian
Z Vergleichende Physiol 58(3):429-440 REF
1968 444.8 Z3
Apis mellifera, Electrodes, Insect dissemination, Insect flight, Insect physiology, Muscles, Potentiometry, Temperature, Wings (insects).

17821-68
NOTES ON DEATHWATCH BEETLES (COLEOPTERA). (SP)
F Espanol
Eos 43(1-2):27-56 REF
15 Nov 1967 421 EO7
Anobiidae, Entomology, Insect adaptation, Insect morphology, Insect taxonomy.

17822-68
PRELIMINARY EVALUATION OF A GRANULOSIS VIRUS FOR CONTROL OF THE CODLING MOTH.
L A Falcon N R Kane R S Bethel
J Econ Entomol 61(5):1208-1213 REF
15 Oct 1968 421 J822
Biological control (insects), Carpocapsa pomonella, Granuloses, Insect diseases, Insect pests, Insect rearing, Integrated control (insects), Larvae, Mortality, Research.

17823-68
DIFFERENCE IN RESPONSE OF TWO STRAINS OF SCREW-WORM FLIES TO THE MALE PHEROMONE.
L W Fletcher H V Claborn J P Turner E Lopez
J Econ Entomol 61(5):1386-1388
15 Oct 1968 421 J822
Breeding, Cochliomyia hominivorax, Experimental insects, Insect rearing, Pheromones, Tables (data).

17824-68
SPREAD OF THE BOLL WEEVIL BY DRAINAGE WATER AND AIR CURRENTS.
R E Fye
J Econ Entomol 61(5):1418-1424 REF
15 Oct 1968 421 J822
Air flow, Anthonomus grandis thurberiae, Cotton, Drainage, Experimental insects, Insect dissemination, Leaves, Research, Velocity, Water.

17825-68
THE PHYLOGENETIC DEVELOPMENT OF FOOD SELECTION IN CERTAIN ORTHOPTEROIDS.
S K Gangwere
Eos 42(0):383-391 REF
28 Feb 1967 421 EO7
Entomology, Feeding, Food habits, Food plants, Food supply, Insect behavior, Insect genetics, Orthoptera.

17826-68
BITING IN ORTHOPTERA AND THEIR ALLIES.
S K Gangwere
Eos 42(0):363-382
28 Feb 1967 421 EO7
Entomology, Feeding, Insect behavior, Insect physiology, Mandibular glands, Orthoptera.

17827-68
STUDIES ON INSECT (PERIPLANETA AMERICANA L.) PHOSPHOFRUCTOKINASE.
A Grasso G M Natalizi
Compar Biochem Physiol 26(3):979-984 REF
Sep 1968 444.8 C73
Biochemistry, Enzymes, Glycolysis, Insect physiology, Kinases, Periplaneta americana.
Abstract

17828-68
A SEX PHEROMONE FROM THE CITRUS MEALYBUG.
N Gravitz C Willson
J Econ Entomol 61(5):1458-1459
15 Oct 1968 421 J822
Biological assay, Citrus, Insect pests, Insect physiology, Pheromones, Planococcus citri, Research, Sex.

17829-68
NEW TECHNIQUES TO BIOASSAY THE SEX ATTRACTANT OF PINK BOLLWORMS WITH OLFACTOMETERS.
A A Guerra
J Econ Entomol 61(5):1252-1254
15 Oct 1968 421 J822
Abdomen, Attractants, Baits, Biological assay, Extracts, Methodology, Olfactometers, Pectinophora gossypiella, Sex attractants, Tables (data).

17830-68
THE MOLTING BEHAVIOR OF THE BLACK WIDOW SPIDER, LATRODECTUS MACTANS.
D W Hagstrum
Entomol Soc Amer Ann 61(3):591-593
May 1968 420 EN82
Cuticle, Insect behavior, Insect physiology, Latrodectus mactans, Molting (insects).

17831-68
FIELD TESTS OF CHEMICALS FOR CONTROL OF THE EUROPEAN CORN BORER.
J A Harding W G Lovely R C Dyar
J Econ Entomol 61(5):1427-1430
15 Oct 1968 421 J822
Biochemistry, Chemical control (insects), Experimental insects, Insect pests, Insecticides, Ostrinia nubilalis, Research, Tables (data).

17832-68
METEOROLOGICAL FACTORS AFFECTING THE ACTIVITY OF NIGHT FLYING MACROLEPIDOPTERA.
J Harling
Entomologist (london) 101(1259):83-93
Apr 1968 421 EN8
Arctiidae, Geometridae, Insect collecting equipment, Lepidoptera, Meteorology, Noctuidae, Notodontidae.

17833-68
INFLUENCE OF THE SPECTRAL COMPOSITION OF CERTAIN BANDS OF VISIBLE AND NEAR VISIBLE RADIATION ON DIAPAUSE IN THE BOLL WEEVIL.
F A Harris
Diss Abstr Sect B 29(2):645B
Aug 1968 Z5055.U49D53
Anthonomus grandis, Insect physiology, Radioactivity, Spectroscopy.

17834-68
FIELD AND LABORATORY STUDIES ON THE ECOLOGY AND MORPHOLOGY OF NABIS AMERICOFERUS CARAYON AND ITS PARASITES IN CALIFORNIA.
R D Hendrick
Diss Abstr Sect B 29(1):227B
Jul 1968 Z5055.U49D53
Experimental insects, Humidity, Insect ecology, Insect morphology, Insect physiology, Nabis americoferus, Parasitism, Photoperiodism, Research, Temperature. Parasites mentioned were: Leucostoma simplex, Wesmaelia pendula, and Polynema sp.

17835-68
ORDERED CHROMOSOMAL DNA SYNTHESIS IN DROSOPHILA MELANOGASTER.
E F Howard
Diss Abstr Sect B 28(11):4431B
May 1968 Z5055.U49D53
Autoradiography, Cell nucleus, Chromosomes, Cytology, Deoxyribonucleic acid, Drosophila melanogaster, Metabolism, Salivary glands (insects), Sex.

17836-68
REPRODUCTIVE BEHAVIOR OF THE POTATO TUBERWORM, PHTHORIMAEA OPERCULELLA (ZELLER), (LEPIDOPTERA: GELECHIIDAE) AND THE EFFECT OF THE CHEMOSTERILANT METEPA.
I W Hughes
Diss Abstr Sect B 29(1):228B
Jul 1968 Z5055.U49D53
Biochemistry, Breeding, Chemical control (insects), Chemosterilants, Dosage, Insect anatomy, Insect behavior, Metepa, Pheromones, Phthorimaea operculella, Reproduction.

17837-68
A STUDY OF THE NUCLEAR POLYHEDROSIS VIRUS ON THE BEET ARMYWORM, SPODOPTERA EXIGUA (HUBNER), WITH EMPHASIS ON STABILITY, PATHOGENICITY AND HISTOPATHOLOGY.
D K Hunter
Diss Abstr Sect B 29(1):229B
Jul 1968 Z5055.U49D53
Biological assay, Diet, Electron microscopy, Experimental insects, Inclusion bodies, Insect diseases, Insect pests, Polyhedroses, Research, Spodoptera exigua, Temperature, Viruses.

17838-68
DROSOPHILA ALCOHOL DEHYDROGENASE ISOZYMES: IDENTITY OF MOLECULAR SIZE.
R B Imberski W H Sofer H Ursprung
Experientia 24(5):504-505
15 May 1968 475 EX7
Dehydrogenases, Drosophila, Electrophoresis, Insect biochemistry. German abstract

17839-68
LARCH SAWFLY SURVIVAL IN RELATION TO WATER LEVELS AND MICROTOPOGRAPHY IN TAMARAK BOGS.
W G H Ives
Can Entomol 100(4):373-385 REF
Apr 1968 421 C16
Bogs, Insect ecology, Microscopy, Pristiphora erichsonii, Pupal cases, Surveys, Topography, Zoogeography.

17840-68
PARTHENOGENESIS IN GUM EMPEROR MOTH ANTHERAEA EUCALYPTI (SCOTT).
C T Jessep
New Zeal Entomol 3(5):30
Dec 1966 421 N48
Antheraea eucalypti, Entomology, Experimental insects, Insect identification, Insect rearing, Parthenogenesis, Photography, Research.

17841-68
DATA ON THE ENDOCRINE SYSTEM OF SEVERAL DIPLOPODA, ONISCOMORPHES (MYRIAPODA). (FR)
L Juberthie-Jupeau
Acad Sci Compt Rend Ser D Sci Nat 265(20):1527-1529
13 Nov 1967 505 P21
Diplopoda, Endocrine glands, Esophagus, Glands (insects), Insect physiology, Secretion.

17842-68
RESULTS CONCERNING HUMORAL IMMUNITY OF PYRRHOCORIS APTERUS L. AND GALLERIA MELLONELLA F. (GE)
H Kamp
Z Vergleichende Physiol 58(3):441-464 REF
1968 444.8 Z3
Actinomycins, Bacteria, Biochemistry, Electrophoresis, Escherichia coli, Galleria mellonella, Immunity, Injections, Insect diseases, Muramidase, Proteins, Pseudomonas acruginosa, Pyrrhocoris apterus, Serratia marcescens, Time, Tyrosine, Vaccines, Viruses. Summary in English

17843-68
MEDIUM AND TECHNIQUES FOR MASS REARING THE RED-BANDED LEAF ROLLER.
M A Karpel L E Hagmann
J Econ Entomol 61(5):1452-1454
15 Oct 1968 421 J822
Argyrotaenia velutinana, Experimental insects, Insect cages, Insect rearing, Methodology, Research.

17844-68
PRELIMINARY OBSERVATIONS ON THE EFFECT OF ALCOHOL AND OIL FILMS ON THE OVIPOSITION OF CULEX PIPIENS QUINQUEFASCIATUS (SAY).
J E Keirans A S Perry R W Fay
Mosquito News 28(1):71-74
Mar 1968 421 M85
Alcohol, Culex pipiens quinquefasciatus, Insect behavior, Mineral oil, Ovulation.

17845-68
COSTELYTRA ZEALANDICA (WHITE) SEX ATTRACTION.
J M Kelsey
New Zeal Entomol 3(5):57-59
Dec 1966 421 N48
Attractants, Costelytra zealandica, Experimental insects, Insect flight, Insect rearing, Methodology, Rainfall, Research, Sex, Temperature, Wind.

17846-68
ELECTRICAL ACTIVITY IN INSECT NERVE CELL BODIES.
G A Kerkut R M Pitman R J Walker
Life Sci 7(1):605-607 REF
01 Jun 1968 442.8 L62
Biochemistry, Cells, Electrophysiology, Insect physiology, Nerves, Periplaneta americana.

17847-68
EFFECTS OF MOLD INHIBITORS IN LARVAL DIET ON THE BIOLOGY OF THE CABBAGE LOOPER.
A N Kishaba T J Hinneberry R Pangaldan P H Tsao
J Econ Entomol 61(5):1189-1194
15 Oct 1968 421 J822
Agar, Biochemistry, Diet, Entomology, Insect biology, Insect physiology, Insect rearing, Larvae, Research, Tables (data), Trichoplusia ni.

17848-68
EFFECT OF THE CHEMOSTERILANT METEPA ON THE HOUSEFLY, MUSCA DOMESTICA L.
K S Kung
Diss Abstr Sect B 29(1):230B
Jul 1968 Z5055.U49D53
Biochemistry, Chemical control (insects), Chemosterilants, Dosage, Drug therapy, Injections, Metepa, Mortality, Musca domestica, Population, Research.

17849-68
ON THE SPHODROMANTIS OF THE SPECIES VIRIDIS FROM NORTHWEST AFRICA. (IT)
M La Greca
Eos 42(0):493-516)MAP
28 Feb 1967 421 EO7
Africa, Entomology, Insect identification, Insect morphology, Insect taxonomy, Sphodromantis, Zoogeography. Species given were: S. viridis viridis, S. viridis meridionalis, S. viridis barbara, S. viridis occidentalis, S. royi.

17850-68
THE INFLUENCE OF TEMPERATURE AND HUMIDITY ON THE DEVELOPMENT OF TENEBRIO MOLITOR L.
R M Lall
Diss Abstr Sect B 29(1):415B
Jul 1968 Z5055.U49D53
Feeding, Humidity, Insect eggs, Insect morphology, Research, Temperature, Tenebrio molitor, Tissues.

17851-68
FUNCTIONAL DEGENERATION OF THE VENOMOUS GLAND OF APIS DURING THE SUMMER AND WINTER. (POR)
C da C Landim S Baldissera D Beig
Rev Brasil Biol 27(4):355-361
Dec 1967 442.8 R326

Bees, Glands (insects), Insect morphology, Insect physiology. English summary

Abstract

17852-68
ENZYMATIC HYDROLYSIS OF THE ENCYSTED PARASPORALE OF BACILLUS THURINGIENSIS BY BOMBYX MORI L. PROTEASES. (FR)
M M Lecadet D Martouret
Acad Sci Compt Rend Ser D Sci Nat 265(20):1543-1546 REF
13 Nov 1967 505 P21
Bacillus thuringiensis, Bombyx mori, Enzymes, Hydrolysis, Insect physiology, Protcinases.

17853-68
SOME INFORMATION ON TRIATOMA SPINOLAI PORTER 1934, WITH A STUDY OF THE EXTERNAL GENETALIA (HEMIPTERA, REDUVIIDAE). (POR
H Lent J Jurberg
Rev Brasil Biol 27(3):273-288 REF
Oct 1967 442.8 R326
Insect anatomy, Reduviidae, Reproductive organs.

17854-68
THE FLIGHT RANGE OF SIMULIUM DAMNOSUM.
D J Lewis
Roy Soc Trop Med Hyg Trans 62(3):454
1968 448.9 R813
Breeding, Insect behavior, Insect dissemination, Insect flight, Insect migration, Simulium damnosum.

17855-68
EGG AND LARVAL DEVELOPMENT OF CARDIOCHILES NIGRICEPS.
W J Lewis S B Vinson
Entomol Soc Amer Ann 61(3):561-565 REF
May 1968 420 EN82
Cardiochiles nigriceps, Dissection, Eggs, Heliothis virescens, Insect morphology, Larvae.

17856-68
A RED DYE TO EVALUATE BAIT FORMULATIONS AND TO MASS MARK FIELD POPULATIONS OF BOLL WEEVILS.
E P Lloyd R J Daum R E Mclaughlin F C Tingle G H Mckibben E C Burt J R Mccoy M R Bell T C Cleveland
J Econ Entomol 61(5):1440-1444
15 Oct 1968 421 J822
Anthonomus grandis, Baits, Dyes, Insect behavior, Labeling, Population, Research.

17857-68
ABOUT LEPIDOPTEROUS IMMATURES.
M R MacKay
Can Entomol 100(4):337-341 REF
Apr 1968 421 C16
Insect biology, Insect control, Insect morphology, Lepidoptera, Metamorphosis.

17858-68
PRE-IMAGINAL CONDITIONING IN DROSOPHILA.
A Manning
Nature 216(5113):338-340
28 Oct 1967 472 N21
Conditioned reflex, Drosophilidae, Experimental insects, Geraniol, Insect behavior, Insect rearing, Olfactometers, Peppermint oil, Research, Scent glands.

17859-68
FOOD DISTRIBUTION WITHIN COLONIES OF THE ARGENTINE ANT, IRIDOMYRMEX HUMILIS (MAYR).
G P Markin
Diss Abstr Sect B 29(1):230B
Jul 1968 Z5055.U49D53
Experimental insects, Feeding, Food, Insect behavior, Iridomyrmex humilis, Phosphorus isotopes, Radioisotopes, Research, Social insects.

17860-68
INTERCEPTION OF APPLE MAGGOT ADULTS ON COLORED TRAPS IN AN ORCHARD.
C W Maxwell
J Econ Entomol 61(5):1259-1260
15 Oct 1968 421 J822
Attractants, Baits, Color, Experimental insects, Insect collecting equipment, Insect traps, Research, Rhagoletis pomonella.

17861-68
INFLUENCE OF POPULATION LEVEL AND TRAP SPACING ON CAPTURE OF TOBACCO HOR-WORM MOTHS IN BLACKLIGHT TRAPS WITH VIRGIN FEMALES.
M W McFadden J J Lam
J Econ Entomol 61(5):1150-1152
15 Oct 1968 421 J822
Baits, Insect traps, Light traps, Manduca sexta, Population, Research, Zoogeography.

17862-68
SUB-UNITS OF ACID PHOSPHATASE-1 IN DROSOPHILA MELANOGASTER: REVERSIBLE DISSOCIATION IN VITRO.
R J McIntyre M R Dean
Nature 214(5085):274-275 REF
15 Apr 1967 472 N21
Acids, Culture media, Drosophila melanogaster, Electrophoresis, Hydrogen-ion concentration, Insect genetics, Phosphatases, Research.

17863-68
PESTICIDES AND POLLUTION. SB959.0U4.
K Mellanby
422 P. ENGLAND, COLLINS CLEAR-TYPE PRESS
1967
Air pollution, Chemical control (pests), Fungicides, Insecticides, Pesticides, Radiation, Vertebrates, Water pollution.

17864-68
SOME ASPECTS OF MATING BEHAVIOR IN BUTTERFLIES.
L D Miller H K Clench
Lepidopterists Soc J 22(3):125-132
20 Aug 1968 421 L554
Butterflies, Environment, Insect behavior, Reports, Reproduction, Research. Insects that were listed: Pieridae, Danaidae, Satyridae, Nymphalidae, Lycaenidae, Hesperiidae

17865-68
THE DIRECTIONS OF THE FLOW OF FOOD IN THE ALIMENTARY TRACT OF THE LEAFHOPPER EUSCELIDIUS VARIEGATUS KBM. (JASSIDAE). (GE
R Munk
Z Vergleichende Physiol 58(3):423-428
1968 444.8 Z3
Digestion, Euscelidius variegatus, Filters, Food, Gastrointestinal system, Insect physiology. Summary in English

17866-68
COMPARISON OF APPLICATION RATES OF SOME SOIL INSECTICIDES FOR CONTROL OF WESTERN CORN ROOTWORM LARVAE IN MISSOURI.
G J Musick M L Fairchild
J Econ Entomol 61(5):1188-1189
15 Oct 1968 421 J822
Biochemistry, Chemical control (insects), Diabrotica virgifera, Environment, Insect pests, Insecticide application, Insecticides, Larvae, Soils, Tables (data).

17867-68
RETRACTION OF THE CLAIM THAT HOST PREGNANCY AFFECTS PUPAL PRODUCTION BY THE TSETSE FLY.
T A M Nash A M Jordan J A Boyle
Nature 216(5111):163-164
14 Oct 1967 472 N21
Blood meal, Glossina, Goats, Insect behavior, Insect physiology, Pregnancy, Pupae.

17868-68
ENDOGENOUS DIURNAL RHYTHM OF PUPATION IN A MOSQUITO POPULATION.
J K Nayar
Nature 214(5090):828-829
20 May 1967 472 N21
Aedes taeniorhynchus, Diurnal rhythm, Experimental insects, Insect rearing, Photoperiodism, Population, Pupae, Research.

17869-68
ON COLD RESISTANCE OF THE PEA APHID ACYRTHOSIPHON PISUM HARR (HOMOPTERA, APHIDIDAE). (RUS)
G V Osipov
Zool Zhur 47(1):137-139 REF
Jan 1968 410 R92
Acyrthosiphon pisum, Aphididae, Hibernation, Insect physiology, Temperature. English abstract

Abstract

17870-68
GROWTH OF ARBOVIRUSES IN MONOLAYERS FROM SUBCULTURED MOSQUITO EMBRYO CELLS.
J Peleg
Virology 35(4):617-618
Aug 1968 448.8 V81
Aedes aegypti, Arboviruses, Cells, Culture media, Physiology, Virus diseases (animals).

17871-68
CELLULAR IMMUNE RESPONSES OF INSECTS TO FOREIGN TISSUE IMPLANTS.
L G Peterson
Diss Abstr Sect B 29(2):646B-647B
Aug 1968 Z5055.U49D53
Cells, Immunity, Insect physiology, Tissues, Transplanting.

17872-68
NUCLEOPROTEIN SYNTHESIS DURING METAMORPHOSIS IN DROSOPHILA VIRILIS.
B J Pettit
Diss Abstr Sect B 28(8):3454B
Feb 1968 Z5055.U49D53
Actinomycin d, Biochemistry, Deoxyribonucleic acid, Drosophila virilis, Histidine, Metamorphosis, Nucleoproteins, Protein synthesis, Puromycin, Ribonucleic acid, Salivary glands (insects), Uridine.

17873-68
THE DEVELOPMENT OF THEILERIA PARVA IN THE SALIVARY GLANDS OF THE TICK, RHIPICEPHALUS APPENDICULATUS.
R E Purnell L P Joyner
Parasitology 58(3):725-732 REF
Aug 1968 448.8 P21
Cattle, Feeding, Insect behavior, Insect morphology, Insect rearing, Nymphs, Parasitic insects, Rabbits, Research, Rhipicephalus appendiculatus, Salivary glands (insects), Theileria parva.

17874-68
LET'S TALK ABOUT THE ADVANTAGES OF BAIT .
L P Quattrochi
Pest Contr 36(6):8-10,12,14
Jun 1968 449.8 EX8
Baits, Blattidae, Chemical control (insects), Household insects.

17875-68
BIONOMICS, ENEMIES AND POPULATION DYNAMICS OF JAVESELLA PELLUCIDA (F.) (HOM., DELPHACIDAE).
M Raatikainen
Ann Agr Fenn 6(28SUP):7-149 MAPS, REF
1967 20 AN7
Biological control (insects), Delphacidae, Javesella pellucida, Natural control (insects), Parasitic insects, Predaceous insects.

17876-68
ASPARTATE AMINOTRANSFERASE IN THE PEA APHID, ACYRTHOSIPHON PISUM (HARRIS).

A Retnakaran S D Beck
Compar Biochem Physiol 26(3):1061-1069 REF
Sep 1968 444.8 C73
Acyrthosiphon pisum, Aminotransferases, Biochemistry, Enzymes, Insect physiology.

Abstract

17877-68
ROLE OF PHOTOPERIOD, TEMPERATURE, AND INJURY IN INDUCTION AND TERMINATION OF THE PUPAL DIAPAUSE OF HELIOTHIS ZEA (BODDIE).
S H Roach
Diss Abstr Sect B 29(2):647B
Aug 1968 Z5055.U49D53
Heliothis zea, Injuries, Insect morphology, Insect physiology, Photoperiodism, Pupae, Temperature.

17878-68
VITAL STAININING OF INSECT EGGS BY INCORPORATION OF TRYPAN BLUE.
K Sander H Vollmar
Nature 216(5111):174-175 REF
14 Oct 1967 472 N21
Acheta domesticus, Dyes, Embryology, Insect eggs, Trypan blue.

17879-68
TYROSINE METABOLISM AND ITS HORMONAL CONTROL AFTER ECLOSION IN THE ADULT FLESHFLY SARCOPHAGA BULLATA PARKER (DIPTERA: SARCOPHAGIDAE).
I M Seligman
Diss Abstr Sect B 29(2):647B
Aug 1968 Z5055.U49D53
Diptera, Hormones, Insect physiology, Metabolism, Sarcophaga bullata, Sarcophagidae, Tyrosine.

17880-68
SENSILLAE ON THE ANTENNAE OF BLOOD-SUCKING BITING MIDGES (DIPTERA, CERATOPOGONIDAE). (RUS)
A K Shevchenko Sh m Djafarov
Zool Zhur 47(1):145-148
Jan 1968 410 R92
Antennae, Ceratopogonidae, Culicoides, Insect morphology, Insect physiology, Sense organs. English abstract

Abstract

17881-68
ETHYLENE OXIDE FOR THE CONTROL OF AMERICAN FOULBROOD IN HONEY BEES.
H Shimanuki T Lehnert
J Econ Entomol 61(5):1456-1457
15 Oct 1968 421 J822
American foulbrood, Apis mellifera, Bacillus larvae, Bacteria, Biochemistry, Ethylene oxide, Insect diseases, Insecticides, Larvae.

17882-68
A POSSIBLE MARKER FOR EUROPEAN CORN BORER MOTHS.
W B Showers L C Lewis G L Reed
J Econ Entomol 61(5):1464-1465
15 Oct 1968 421 J822
Diet, Fluorescent dyes, Insect behavior, Insect migration, Labeling, Population, Trichoplusia ni.

17883-68
CHAMBERS FOR COLLECTING AND OBSERVING SINGLE PUPAE OF THREE STORED-PRODUCT MOTHS.
E L Soderstrom A E Lovitt
J Econ Entomol 61(5):1468
15 Oct 1968 421 J822
Cadra cautella, Ephestia elutella, Experimental insects, Insect collecting equipment, Plodia interpunctella, Pupae, Research.

17884-68
ON THE INNERVATION OF THE PROTHORACIC GLANDS IN PAPILIO DEMOLEUS L. (LEPIDOPTERA).
K P Srivastava H H Singh
Experientia 24(8):838-839
15 Aug 1968 475 EX7
Insect histology, Insect physiology, Larvae, Lepidoptera, Nervous system, Papilio demoleus. German abstract

17885-68
THE EFFECT OF BLOOD-FEEDING ON THE LONGEVITY OF RADIATIONRESISTANT YELLOW-FEVER MOSQUITOES.
N Stahler L A Terzian
J Econ Entomol 61(5):1447
15 Oct 1968 421 J822
Aedes aegypti, Blood, Experimental insects, Feeding, Gamma rays, Immunity, Longevity, Radiation, Research.

17886-68
TECHNIQUES OF MARKING INSECTS WITH MICRONIZED FLUORESCENT DUST WITH ESPECIAL EMPHASIS ON MARKING MILLIONS OF LYGUS HESPERUS FOR DISPERSAL STUDIES.
V M Stern A Mueller
J Econ Entomol 61(5):1232-1237
15 Oct 1968 421 J822
Dusting, Fluorescent substances, Insect dissemination, Insect migration, Labeling, Lygus hesperus, Pigments, Population, Research.

17887-68
REARING STORED PRODUCT INSECTS FOR LABORATORY STUDIES: SIX SPECIES OF MOTHS.
R G Strong Partida D N Warner
J Econ Entomol 61(5):1237-1249
15 Oct 1968 421 J822
Experimental insects, Humidity, Insect biology, Insect rearing, Moths, Research, Tables (data), Temperature. The moths were: Cadra cautella, Vitula edmandsae serratilineela, Pl-dia interpunctella, Anagasta kuehniella, C. figulilella and Ephestia elutella.

17888-68
LABORATORY REARING OF CULEX (MELANOCONION) PORTESI SENEVET AND ABONNENC.
M Takahashi
Mosquito News 28(1):82-84 REF
Mar 1968 421 M85
Culex portesi, Insect physiology, Insect rearing.

17889-68
LIFE HISTORY OF THE LOOPER PHIGALIA TITEA IN VIRGINIA.
R L Talerico
Entomol Soc Amer Ann 61(3):557-561
May 1968 420 EN82
Hibernation, Insect histology, Larvae, Ovipositors, Parasitic insects, Phigalia titea, Pupal cases, Soils.

17890-68
SOME COMPARATIVE DATA ON ECOLOGY AND BEHAVIOUR OF STAPHYLINID BEETLES (COLEOPTERA, STAPHYLINIDAE). (RUS)
A L Tichomirova
Zool Zhur 46(12):1785-1798 REF
Dec 1967 410 R92
Insect behavior, Insect ecology, Insect evolution, Staphylinidae.

Abstract

17891-68
SOME ASPECTS OF ISOLEVCINE METABOLISM IN THE YELLOW FEVER MOSQUITO, AEDES AEGYPTI (L.).
W L Tietjen
Diss Abstr Sect B 29(1):418B
Jul 1968 Z5055.U49D53
Aedes aegypti, Biochemistry, Carbon isotopes, Diet, Isoleucine, Lipids, Metabolism, Proteins.

17892-68
ON PERIODICITY OF GAS EXCHANGE IN ONTOGENESIS OF THE COLORADO BEETLE (LEPTINOTARSA DECEMLINEATA SAY.). (RUS)
T Tilavov
Zool Zhur 47(1):143-145
Jan 1968 410 R92
Diurnal rhythm, Insect physiology, Insect respiration, Leptinotarsa decemlineata. English abstract

Abstract

17893-68
INFLUENCE OF A VIRUS DISEASE ON THE HEMOCYTIC ANTICRYPTOGRAMIC REACTIONS IN INSECTS. (FR)
A Vey C Vago
Acad Sci Compt Rend Ser D Sci Nat 265(20):1568-1570
13 Nov 1967 505 P21
Blood cells, Insect diseases, Insect physiology, Insects, Mycosis, Viruses. French summary

17894-68
IMPROVEMENT OF A METHOD FOR CULTURING THE EGGS OF THE PHASMID CARAUSIUS MOROSUS BR. DEPRIVED OF THE CHORION. (FR)
J Vignau
Acad Sci Compt Rend Ser D Sci Nat 265(20):1504-1507
13 Nov 1967 505 P21
Fetal membranes, Insect eggs, Insect morphology, Insect physiology, Insect respiration, Phasmatidae. French summary

17895-68
ON THE TETRAPYRROLIC PIGMENTS, ESSENTIAL CONSTITUENTS OF HOMOCHROME:COLORATION IN OEDIPODA COERULESCENS L. (ACRIDAE, ORTHOPTERA). (FR)
M Vuillaume B Levita
Acad Sci Compt Rend Ser D Sci Nat 264(22):2591-2593
29 May 1967 505 P21
Biochemistry, Insect physiology, Oedipoda coerulescens, Orthoptera, Pigments (insect).

17896-68
PERMEABILITY AND EXCITATION OF INSECT MUSCLE.
A C Wareham C J Duncan K Bowler
Nature 217(5132):970-972
09 Mar 1968 472 N21
Atpase, Biochemistry, Insects, Ions, Muscles, Nervous system, Periplaneta americana, Permeability, Potassium, Sodium.

17897-68
PYRETHRINS-PIPERONYL BUTOXIDE APPLIED AS A FOG IN AN EMPTY GRAIN BIN.
F L Watters
J Econ Entomol 61(5):1313-1316
15 Oct 1968 421 J822
Biochemistry, Chemical control (insects), Cryptolestes ferrugineus, Humidity, Insecticidal aerosols, Insecticide application, Insecticide residues, Piperonyl butoxide, Pyrethrum, Storage, Temperature.

17898-68
BIOLOGY OF THE ELM LEAF BEETLE IN SOUTHERN ARIZONA.
G P Wene
J Econ Entomol 61(5):1178- 180
15 Oct 1968 421 J822
Entomology, Experimental insects, Insect biology, Insect morphology, Metamorphosis, Pyrrhalta luteola, Research.

17899-68
MECHANISMS OF INHIBITION AND UNCOUPLING OF OXIDATIVE PHOSPHORYLATION IN HOUSEFLY MITOCHONDRIA.
R L Williamson
Diss Abstr Sect B 29(1):235B
Jul 1968 Z5055.U49D53
Absorption, Adenosine triphosphates, Chemical reactions, Manometry, Mitochondria, Musca domestica, Oxygen, Phosphorylation, Temperature.

17900-68
WINTER OVIPOSITION BY THE ALFALFA WEEVIL IN VIRGINIA.
A M Woodside J L Bishop R I. Pienkowski
J Econ Entomol 61(5).1230-1232
15 Oct 1968 421 J822
Alfalfa, Hypera postica, Insect eggs, Insect pests, Ovulation, Research, Tables (data), Temperature, Weather.

17901-68
COMPARATIVE LIFE IIISTORIES OF CHLORDANE-RESISTANT AND NONRESISTANT GERMAN COCKROACHES.
C C Wright
J Econ Entomol 61(5):1317-1321 REF
15 Oct 1968 421 J822
Biochemistry, Blattella germanica, Chemical control (insects), Chlordane, Experimental insects, Humidity, Insect behavior, Insect morphology, Insect rearing, Insecticides, Temperature.

GENETICS

17902-68
PHYSIOLOGICAL GENETICS OF MELANOTIC TUMORS IN DROSOPHILA MELANOGASTER . V. AMINO ACID METABOLISM AND TUMOR FORMATION IN THE TU BW; ST SU-TU STRAIN.
B Burnet J H Sang
Genetics 59(2):211-235 REF
Jun 1968 442.8 G28
Amino acids, Biochemistry, Diet, Drosophila melanogaster, Genes, Insect genetics, Insect metabolism, Insect physiology, Mutation, Phenylalanine, Tryptophan.

17903-68
SALIVARY CHROMOSOME-LIKE STRUCTURE OF A COCCID CHROMOSOME.
T S S Dikshith
Experientia 24(5):513-514
15 May 1968 475 EX7
Chromosomes, Homoptera, Icerya acgyptiaca, Insect genetics. French abstract

17904-68
GAMMA-RAY-INDUCED MUTATIONS IN DROSOPHILA MELANOGASTER OOCYTES: THE PHENOMENON OF DOSE RATE.
E Himoe
Diss Abstr Sect B 28(11):4431B
May 1968 Z5055.U49D53
Chromosomes, Dosage, Drosophila melanogaster, Gamma rays, Insect genetics, Irradiation, Lethal factor, Mutation, Therapeutics.

17905-68
MITOTIC CHROMOSOMES OF GLOSSINA PALLIDIPES AUSTEN.
P E Hulley
Nature 217(5132):977-978,979
09 Mar 1968 472 N21
Chromosomes, Entomology, Glossina pallidipes, Insect genetics, Mitosis, Morphology, Research.

17906-68
TETRAPLOID FEMALES IN THE IIYMENOPTERON, MORMONIELLA.
R M Macy
Diss Abstr Sect B 29(1):415B
Jul 1968 Z5055.U49D53
Breeding, Chromosomes, Cytology, Fertility, Insect genetics, Mutation, Nasonia, Parasitic insects, Polyploidy, Research.

17907-68
ACTINOMYCIN D-INDUCED PHENOCOPIES IN DROSOPHILA MELANOGASTER AND THEIR RELEVANCE TO DIFFERENTIAL GENE TRANSCRIPTION. THE GENETIC BASIS OF ACTINOMYCIN D-INDUCED PREFERENTIAL KILLING OF DROSOPHILIA MELANOGASTER MALES.
L Margulies
Diss Abstr Sect B 29(2):485B-486B
Aug 1968 Z5055.U49D53
Actinomycin d, Drosophila melanogaster, Genetics, Insect control.

17908-68
DEVELOPMENTAL CHARACTERISTICS OF FIVE LETHAL MUTANTS OF DROSOPHILA MELANOGASTER.
C P Wright
Diss Abstr Sect B 28(11):4436B
May 1968 Z5055.U49D53
Drosophila melanogaster, Insect genetics, Insect morphology, Lethal factor, Measurement, Mutation, Oxygen. The five lethal mutants were: glufol-2, glufultyrless-1, glyful-1, phenfultyrless-1, and tyrprocess-1.

17909-68
MEIOTIC DRIVE AND VISIBLE POLARITY IN DROSOPHILA SPERMATOCYTES.
A F Yanders J G Brewan W J Peacock D J Goodchild
Genetics 59(2):245-253 REF
Jun 1968 442.8 G28
Chromosomes, Cytology, Cytoplasm, Drosophilidae, Electron microscopy, Insect genetics, Research, Sex, Spermatocytes, Temperature.

MEDICAL ENTOMOLOGY

17910-68
STUDIES OF THE EPIDEMIOLOGY OF ARTHROPOD-BORNE VIRUS INFECTIONS AT MITCHELL RIVER MISSION, CAPE YORK PENINSULA, NORTH QUEENSLAND. II. ARBOVIRUS INFECTIONS OF MOSQUITOES, MAN, AND DOMESTIC FOWLS, 1963-1966.
R L Doherty R H Whitehead E J Wetters B M Gorman
Roy Soc Trop Med Hyg Trans 62(3):430-438 REF
1968 448.9 R813
Arboviruses, Culicidae, Epidemiology, Human diseases, Insect ecology, Insect vectors, Light traps, Population, Research, Serological tests, Virus diseases (animals).

17911-68
SPECIAL EQUIPMENT IN THE BOX ELDER COUNTY MOSQUITO AND FLY ABATEMENT DISTRICT.
K L Josephson
Mosquito News 28(1):112-114
Mar 1968 421 M85
Culicidae, Diptera, Drainage ditches, Insect control, Spraying equipment.

17912-68
CULICOIDES CONTROL IN THE CANAL ZONE BY WATER MANAGEMENT.
J P MacLaren J L Hawkins W P Murdoch R G Bush
Mosquito News 27(4):513-519 REF
Dec 1967 421 M85
Ceratopogonidae, Culicoides, Drainage ditches, Insect control, Panama Canal Zone, Reservoirs.

17913-68
BIOLOGY OF VECTOR-ASSOCIATED DISEASES IN VIETNAM.
H G Scott
Amer Vet Med Ass J 151(12):1741-1750 MAP
15 Dec 1967 41.8 AM3
Filariasis, Helminthiasis, Insect vectors, Malaria, Medical entomology, Plague.

17914-68
STUDIES OF THE EPIDEMIOLOGY OF ARTHROPOD-BORNE VIRUS INFECTIONS AT MITCHELL RIVER MISSION, CAPE YORK PENINSULA, NORTH QUEENSLAND. I. MOSQUITO COLLECTIONS, 1963-1966.
H A Standfast G J Barrow
Roy Soc Trop Med Hyg Trans 62(3):418-429 REF
1968 448.9 R813
Arboviruses, Baits, Epidemiology, Insect dissemination, Insect traps, Insect vectors, Malaria, Population, Rainfall, Research, Temperature, Weather. Insects mentioned were: Anopheles, Culex pullus, C. squamosus, Mansonia, Coquillettidia, Uranotaenia, Ficalbia, Aedeomyia, C. annulirostris.

17915-68
GAMASID MITES (GAMASOIDEA) AS VECTORS OF TIIE DISEASE CAUSATIVE AGENTS. (RUS)
A A Zemskaya
Zool Zhur 46(12):1771-1785 REF
Dec 1967 410 R92
Epidemiology, Gamasides, Insect vectors, Oribatei, Tularemia.
Abstract

CROP PRODUCTION

17916-68
COMPARATIVE GIBBERELLIN RELATIONSHIPS IN TALL AND DWARF PEAS (PISUM SATIVUM L.).
J D Anderson
Diss Abstr Sect B 28(11):4440B-4441B
May 1968 Z5055.U49D53
Gibberellins, Light, Peas, Pisum sativum, Plant metabolism, Plant physiology, Seedlings.

17917-68
METHOD FOR ESTIMATING INTENSITY OF THE LITTLE LEAF DISEASE OF BRINJAL (SOLANUM MELONGENA).
A K Banerjee G K Bajpai I N Tandon
Plant Dis Rep 52(2):118-120
Feb 1968 1.9 P69P
Correlation, Eggplant, Leaves, Plant diseases, Research, Sampling (statistics).

17918-68
EVALUATION OF NEMATOCIDES FOR CONTROLLING RENIFORM NEMATODES ON SWEETPOTATOES.
W Birchfield W J Martin
Plant Dis Rep 52(2):127-131 REF
Feb 1968 1.9 P69P
Crop yields, Fumigants, Nematocides, Rotylenchulus reniformis, Sampling (statistics), Soil testing, Sweetpotatoes.

17919-68
DESERT GRASSLAND MESQUITE AND FIRE.
R Claveran Alonso
Diss Abstr Sect B 28(8):3121B
Feb 1968 Z5055.U49D53
Bouteloua curtipendula, Bouteloua gracilis, Fire, Plant ecology, Plant temperature, Prosopis velutina, Quercus emoryi, Ranges.

17920-68
EFFECT OF SEED EXTRACT OF TRIFOLIUM SUBTERRANEUM ON GERMINATION AND SEEDLING GROWTH RATE.
A W Ferguson
Nature 217(5133):1064-1066
16 Mar 1968 472 N21
Plant extracts, Plant growth inhibitors, Plant physiology, Seed germination, Seedlings, Subterranean clover, Temperature, Wheat.

17921-68
THE EFFECT OF CARBON SOURCE, CARBON TO NITROGEN RATIOS, AND ORGANIC AMENDMENTS ON SURVIVAL OF PROPAGULES OF VERTICILLIUM ALBOATRUM IN SOIL.
R J Green G C Papavizas
Phytopathology 58(5):567-570 REF
May 1968 464.8 P56
Carbon, Nitrogen, Physiology, Plant reproduction, Population statistics, Soils, Verticillium albo-atrum.

17922-68
MITOTIC RECOMBINATION IN CONIDIOPHORES OF VERTICILLIUM ALBOATRUM.
A C Hastie
Nature 214(5085):249-252
15 Apr 1967 472 N21
Cytology, Fungi, Mitosis, Plant genetics, Reproduction, Research, Verticillium albo-atrum.

17923-68
COMMONWEALTH INSTITUTE OF BIOLOGICAL CONTROL-INDIAN STATION.
V P Kao
Plant Protect Bull 18(1):1-5
1966 421 P69
Biological control (pests), Laboratories, Research.

17924-68
THE EFFECT OF DISINFECTION ON CEREAL SEEDS DETERMINED IN LABORATORY EXPERIMENTS AND EMERGENCE TESTS IN SOIL.
H Kolk G Ljungberg
Swed Stat Vaxtskyddsanst Medd 13(113):471-484
1967 464.9 SW3M
Agricultural research, Fungus diseases (plants), Fusarium, Grain, Greenhouses, Helminthosporium, Laboratories, Land, Seed treatment, Septoria.

17925-68
THE RELATION OF RAINFALL, RELATIVE HUMIDITY, AND TEMPERATURE TO LATE BLIGHT OF POTATO IN SEDES, SINDOS-LAHANOKIPI OF NOMOS THESSALONIKI.
N C Kyrou
Plant Dis Rep 51(11):936-940 REF
Nov 1967 1.9 P69P
Fungus diseases (plants), Humidity, Late blight (potatoes), Phytophthora infestans, Plant disease forecasting, Rainfall, Temperature.

17926-68
EASTERN DWARF MISTLETOE ON JACK PINE IN MANITOBA.
J G Laut
Plant Dis Rep 51(11):899-900 REF
Nov 1967 1.9 P69P
Arceuthobium pusillum, Parasitic plants, Pinus banksiana, Witches' broom (coniferae).

17927-68
DEVELOPMENT OF PARTHENOCARPIC AND NON-PARTHENOCARPIC SYCONIA OF FICUS CARICA L. CV. KING IN RELATION TO ENDOGENOUS AND EXOGENOUS GROWTH REGULATORS.
A F Lodhi
Diss Abstr Sect B 28(11):4447B
May 1968 Z5055.U49D53
Crops, Culture media, Figs, Fruit, Gibberellins, Parthenocarpy, Plant physiology, Plant regulators.

17928-68
RACE BUILDUP OF XANTHOMONAS MALVACEARUM ON COTTON IN SOUTHEAST MISSOURI.
J W Miller
Plant Dis Rep 52(9):739-740
Sep 1968 1.9 P69P
Angular leafspot (cotton), Cotton, Injections, Leaves, Research, Sampling (statistics), Xanthomonas malvacearum.

17929-68
REDUCING SPRING DISCHARGE OF VENTURIA INAEQUALIS ASCOSPORES BY COMPOSTING OVERWINTERING LEAVES.
P M Miller S Rich
Plant Dis Rep 52(9):728-730
Sep 1968 1.9 P69P
Fertilizers, Hibernation, Leaves, Lime, Potassium phosphate, Research, Venturia inaequalis.

17930-68
TWO NEW HARDWOOD HOSTS OF FOMES ANNOSUS.
D Punter J D Cafley
Plant Dis Rep 52(9):692
Sep 1968 1.9 P69P
Fomes annosus, Fraxinus americana, Pinus resinosa, Research, Tree diseases, Ulmus americana.

17931-68
SELECTIVE STAINING OF DEAD CELLS IN BEAN LEAVES INJURED BY OZONE.
S Rich H Tomlinson
Plant Dis Rep 52(9):732
Sep 1968 1.9 P69P
Beans, Cells, Chemicals, Greenhouses, Leaves, Lethal factors, Ozone, Plant diseases, Research.

17932-68
LIST OF PHYTOPATHOLOGICAL TERMS.
G J Saaltink
Neth J Plant Pathol 74(3):65-84
1968 464.8 T44
Nomenclature, Phytopathology, Plant diseases. English summary

17933-68
EXPERIMENTS AND CONSIDERATIONS ON THE ANOMOLIES OF TOMATOES OF THE SUPER MARMANDE TYPE IN HOT HOUSES, CONNECTIONS WITH THE USE OF SOME PLANT HORMONES.
G Scaramuzzi G Perrotta
Riv Patol Veg (SER.4)3(3):17 7-205
Jul 1967 464.8 R52
Abnormalities, Fertilizer application, Greenhouses, Nutrient solutions (plants), Plant hormones, Plant regulators, Research, Tomatoes. English summary

17934-68
THE IMPACT OF FUNGI ON MAN. QK603.0T3.
W A Taber R A Taber
64 P. CHICAGO, RAND MCNALLY AND COMPANY
1967
Fungi, Fungus diseases (animals), Fungus diseases (plants), Industry, Man, Plant physiology, Reproduction, Toxins.

17935-68
SUCCESSFUL TISSUE TRANSPLANTATION OF AUXIN-DEPENDENT TUMOURS AND SOME OF ITS PROBLEMS.
D Torok
Nature 216(5113):376-377 REF
28 Oct 1967 472 N21
Chromosomes, Crown galls, Culture media, Diagnosis, Picea glauca, Plant grafting, Plant hormones, Plant physiology, Research, Tissues, Transplanting.

17936-68
PESTICIDES IN THE COMING STRUGGLE FOR FOOD.
R White-Stevens
Nat Agr Chem Ass News Pesticide Rev 26(5):5-8
Jun 1968 421 AG8
Agricultural economics, Food plants, Pest control, Pesticides, Plant protection, Population statistics.

17937-68
GENETICS OF REACTION TO PUCCINIA SORGHI SCHW. IN TEN CORN INBRED LINES OBTAINED FROM AFRICA AND EUROPE.
D R Wilkinson
Diss Abstr Sect B 28(8):3133B
Feb 1968 Z5055.U49D53
Corn, Plant breeding, Plant disease resistance, Plant genetics, Puccinia sorghi.

DISEASES

17938-68
ABSTRACTS OF PAPERS ACCEPTED FOR PRESENTATION AT THE SIXTIETH ANNUAL MEETING OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY, COLUMBUS, OHIO, 2-6 SEPTEMBER 1968.
Phytopathology 58(8):1041-1074
Aug 1968 464.8 P56
Fungus diseases (plants), Plant protection, Reports, Virus diseases (plants).

17939-68
IRREVERSIBLE INHIBITION OF SPORE FORMATION IN ALTERNARIA TOMATO BY DE-DIFFERENTATION OF CONIDIOPHORES. (ABSTRACT).
M Aragaki J W Hylin K Maeda
Phytopathology 58(8):1041
Aug 1968 464.8 P56
Alternaria tomato, Fungus diseases (plants), Seed germination, Spores, Tomatoes.

17940-68
ANATOMIC EFFECTS OF CADANG-CADANG DISEASE ON COCONUTS.
E Arguelles-Rasa
Plant Dis Rep 52(9):734-737 REF
Sep 1968 1.9 P69P
Anatomy, Coconuts, Kadang-kadang (coconuts), Research, Tree diseases.

17941-68
QUANTITATIVE HISTOLOGY OF MELAMPSORA LINI RESISTANCE IN FLAX. (ABSTRACT).
S J Aronson L J Littlefield
Phytopathology 58(8):1041
Aug 1968 464.8 P56
Flax, Fungus diseases (plants), Histology, Melampsora lini, Plant disease resistance, Rust (flax).

17942-68
STUDIES ON THE CHEMICAL CONTROL OF RICE BLAST CAUSED BY PIRICULARIA ORYZAE CAV.
M H Ashrafuzzaman
Diss Abstr Sect B 29(2):435B
Aug 1968 Z5055.U49D53
Blast (rice), Chemicals, Fungus diseases (plants), Pest control, Piricularia oryzae, Research, Rice.

17943-68
EVALUATION OF SYSTEMIC FUNGICIDES AND INSECTICIDES FOR THE CONTROL OF COTTON BOLL ROT IN VITRO. (ABSTRACT).
H S Bagga
Phytopathology 58(8):1041
Aug 1968 464.8 P56
Boll rot (cotton), Cotton, Fungicides, Fungus diseases (plants), Insecticides, Plant protection.

17944-68
THE BIOLOGY AND ECOLOGY OF FUSARIUM OXYSPORUM F. MELONIS IN SOIL AND THE ROOT ZONES OF HOST AND NONHOST PLANTS.
Z Banihashemi
Diss Abstr Sect B 29(2):435B-436B
Aug 1968 Z5055.U49D53
Biology, Ecology, Fungus diseases (plants), Fusarium oxysporum, Roots, Soil fungi.

17945-68
PATHOGENICITY OF SOME BLUE-STAIN FUNGI IN THE GENUS CERATOCYSTIS. (ABSTRACT).
H G Basham
Phytopathology 58(8):1042
Aug 1968 464.8 P56
Blue stain (coniferae), Ceratocystis, Fungus diseases (plants), Pinus taeda, Vascular system (plants).

17946-68
SPERMIDINE, THE MAJOR POLYAMINE COMPONENT OF TURNIP YELLOW MOSAIC VIRUS. (ABSTRACT).
S V Beer T Kosuge
Phytopathology 58(8):1042
Aug 1968 464.8 P56
Amines, Biochemistry, Turnips, Virus diseases (plants), Yellow mosaic (turnips).

17947-68
DISEASE INVOLVEMENT OF NONALLIACEOUS HOSTS BY PYRENOCHAETA TERRESTRIS. (ABSTRACT).
R Beliram J C Horton
Phytopathology 58(8):1042

Aug 1968 464.8 P56
Fungus diseases (plants), Pyrenochaeta terrestris, Temperature, Vegetables.

17948-68
CARBOHYDRATE DISTRIBUTION IN GRAFTED POTATO PLANTS REPRESENTING TWO TYPES OF RESISTANCE TO VIRUS X.
A P Benson W J Hooker
Phytopathology 58(5):571-574 REF
May 1968 464.8 P56
Carbohydrates, Plant disease resistance, Plant grafting, Potatoes, Virus diseases (plants), Virus x (potatoes).

17949-68
ANALYSIS OF COMPETITION IN MODEL SYSTEMS. (ABSTRACT).
D M Benson
Phytopathology 58(8):1043
Aug 1968 464.8 P56
Beans, Biological control (pests), Competition, Fungus diseases (plants), Fusarium solani phaseoli.

17950-68
MECHANISM OF INCREASED ROOT ROT IN VIRUS-INFECTED PEAS.
M K Beute
Diss Abstr Sect B 29(2):495B
Aug 1968 Z5055.U49D53
Peas, Plant physiology, Root rot (peas), Roots, Virus diseases (plants).

17951-68
NUMBER OF ZOOSPORES OF APHANOMYCES EUTEICHES REQUIRED FOR INFECTION ON PEAS. (ABSTRACT).
H S Bhallia
Phytopathology 58(8):1043
Aug 1968 464.8 P56
Aphanomyces cuteiches, Fungus diseases (plants), Peas, Root rot (peas), Seedlings.

17952-68
EFFECTS OF WATERING FREQUENCY AND SATURATION TIME ON FINE ROOT NECROSIS OF PEACH CAUSED BY PYTHIUM SPP. (ABSTRACT).
J A Biesbrock F F Hendrix
Phytopathology 58(8):1043
Aug 1968 464.8 P56
Fungus diseases (plants), Necrosis, Peaches, Plant water relations, Pythium, Roots, Soil adsorption, Time.

17953-68
ANAEROBIC METABOLISM OF ALBUGO CANDIDA-INFECTED RADISH COTYLEDONS.
L L Black P H Williams G S Pound
Phytopathology 58(5):672-675 REF
May 1968 464.8 P56
Acetaldehyde, Albugo candida, Carbon dioxide, Metabolism, Radishes.

17954-68
RELATION OF BORON TO CHERRY ROSETTE DISEASE IN OREGON, AND THE POSSIBLE IMPLICATION OF A VIRUS.
B Bolwyn
Diss Abstr Sect B 28(8):3128B
Feb 1968 Z5055.U49D53
Boron, Mazzard cherries, Plant nutritional deficiencies, Rosette (cherries), Virus diseases (plants).

17955-68
THE ROLE OF IAA IN HOST REACTION TO DIFFERENT ISOLATES OF PHYTOPHTHORA CACTORUM. (ABSTRACT).
Z Borecki D F Millikan
Phytopathology 58(8):1044
Aug 1968 464.8 P56
Apples, Collar rot (apples), Fungus diseases (plants), Indoleacetic acid, Phytophthora cactorum.

17956-68
A MECHANISM OF ENHANCED RESISTANCE TO CERATOCYSTIS ULMI IN AMERICAN ELMS TREATED WITH SODIUM TRICHLOROPHENYLACETATE.
W D Brener C H Beckman
Phytopathology 58(5):555-561 REF
May 1968 464.8 P56
Ceratocystis ulmi, Fenac, Fungus diseases (plants), Plant disease resistance, Plant regulators, Tylose, Ulmus.

17957-68
MORPHOLOGY AND LONGEVITY OF VERTICILLIUM ALBO-ATRUM IN COTTON LEAVES. (ABSTRACT).
L A Brinkerhoff D Sarojak N Hormchong N C Rogers
Phytopathology 58(8):1044
Aug 1968 464.8 P56
Cotton, Fungus diseases (plants), Leaves, Longevity, Morphology, Verticillium albo-atrum.

17958-68
HELICOPTER APPLICATION OF PHYTOACTIN TO WHITEBARK PINE. (ABSTRACT).
D H Brown O J Dooling
Phytopathology 58(8):1045
Aug 1968 464.8 P56
Aerial spraying, Antibiotics, Cronartium ribicola, Fungus diseases (plants), Helicopters, Pesticide application, Phytoactin, Pinus albicaulis.

17959-68
CHEMICAL TREATMENT OF HYPOXYLON CANKERS ON ASPEN. (ABSTRACT).
D H Brown S B Silverborg
Phytopathology 58(8):1045
Aug 1968 464.8 P56
Chemicals, Fungus diseases (plants), Hypoxylon, Populus, Therapeutics.

17960-68
GERMINATION OF IMMATURE AND MATURE SPORES OF DIPLODIA NATALENSIS. (ABSTRACT).
G E Brown
Phytopathology 58(8):1044
Aug 1968 464.8 P56
Citrus, Diplodia natalensis, Fungus diseases (plants), Seed germination, Spores.

17961-68
PERMEABILITY CHANGES IN PEAR FRUITS ASSOCIATED WITH PATHOGENESIS BY ERWINIA AMYLOVORA. (ABSTRACT).
A Burkowicz R N Goodman
Phytopathology 58(8):1045-1046
Aug 1968 464.8 P56
Absorption, Bacterial diseases (plants), Erwinia amylovora, Fruit, Pears, Plant translocation. Abstract of American Phytopathological Society meeting

17962-68
RELATION OF UREDIAL AND UREDIOSPORE COUNTS TO EPIPHYTOTIC DEVELOPMENT OF WHEAT RUSTS AND THE VALUE OF THE COUNTS IN PREDICTING DISEASE. (ABSTRACT).
J R Burleigh R W Romig A P Roelfs
Phytopathology 58(8):1045
Aug 1968 464.8 P56
Fungus diseases (plants), Physiology, Puccinia graminis, Rust (wheat), Wheat.

17963-68
DISTRIBUTION IN ONTARIO OF VERTICILLIUM STRAINS CAUSING WILT OF POTATOES.
L V Busch
Can Plant Dis Surv 47(3):76-78
Sep 1967 464.9 C16S
Fungus diseases (plants), Potatoes, Verticillium albo-atrum, Wilt (potatoes).

17964-68
PREMATURE DEATH OF ADULT RUSTED WHEAT PLANTS IN RELATION TO CARBON DIOXIDE EVOLUTION BY ROOT SYSTEMS.
W R Bushnell J B Rowell
Phytopathology 58(5):651-658 REF
May 1968 464.8 P56
Carbon dioxide, Mortality, Plant diseases, Puccinia graminis tritici, Roots, Rust (wheat), Wheat.

17965-68
PECTIN METHYL-TRANS-ELIMINASE AS THE MACERATION FACTOR OF SCLEROTINIA FRUCTIGENA AND ITS SIGNIFICANCE IN BROWN ROT OF APPLE.
R J W Byrde A H Fielding
J Gen Microbiol 52(2):287-297 REF
Jul 1968 448.3 J823
Apples, Brown rot (apples), Fungus diseases (plants), Plant biochemistry, Sclerotinia fructigena.
Abstract

17966-68
INFLUENCE OF NITROGEN FORM ON THE INCIDENCE AND SEVERITY OF APHANOMYCES ROOT ROT OF PEAS. (ABSTRACT).
H E Carley T H King
Phytopathology 58(8):1046
Aug 1968 464.8 P56
Aphanomyces euteiches, Fungus diseases (plants), Nitrogen, Peas, Root rot (peas).

17967-68
PATCH CANKER OF HEVEA BRASILIENSIS CAUSED BY PHYTOPHTHORA PALMIVORA.
K H Chee
Plant Dis Rep 52(2):132-133
Feb 1968 1.9 P69P
Artificial insemination, Culture media, Environment, Fungus diseases (plants), Hevea brasiliensis, Petrolatum, Phytophthora palmivora, Pythium, Spraying, Tissues, Wood decay.

17968-68
SUSCEPTIBILITY OF TOMATO VARIETIES TO SCLEROTIUM ROLFSII.
G C Clerk J T Dakwa
Plant Dis Rep 51(11):941
Nov 1967 1.9 P69P
Fungus diseases (plants), Plant disease resistance, Rot (tomatoes), Sclerotium rolfsii, Tomatoes.

17969-68
CARBON DIOXIDE-POWERED PLOT SPRAYER FOR TURFGRASS DISEASE CONTROL FUNGICIDE APPLICATION.
H Cole P M Anderson
Plant Dis Rep 52(9):678-682
Sep 1968 1.9 P69P
Carbon dioxide, Equipment, Fungicides, Grasses, Spraying, Turf.

17970-68
EFFECT OF XANTHOMONAS VESICATORIA ON LOSS OF ELECTROLYTES FROM LEAVES OF CAPSICUM ANNUUM.
A A Cook R E Stall
Phytopathology 58(5):617-619 REF
May 1968 464.8 P56
Bacteria, Bush redpeppers (vegetable), Electrolytes, Leaves, Plant diseases, Plant physiology, Pseudomonadaceae, Xanthomonas vesicatoria.

17971-68
ECOLOGY AND POSSIBLE SIGNIFICANCE OF PERITHECIA OF CALONECTRIA NIVALIS IN THE PACIFIC NORTHWEST.
R J Cook G W Bruehl
Phytopathology 58(5):702-703
May 1968 464.8 P56
Calonectria nivalis, Ecology, Fusarium nivale, Grain, Perithecia.

17972-68
THE RELATIONSHIPS OF OZONE, LOPHODERMIUM PINASTRI AND PULLULARIA PULLULANS TO NEEDLE BLIGHT OF EASTERN WHITE PINE.
A C Costonis
Diss Abstr Sect B 29(2):436B-437B
Aug 1968 Z5055.U49D53
Fungus diseases (plants), Lophodermium pinastri, Needle blight (pinus), Ozone, Pinus strobus, Pullularia pullulans.

17973-68
SOIL FUMIGANTS TESTED FOR CONTROL OF CROWN GALL.
I W Deep R A McNeilan I C MacSwan
Plant Dis Rep 52(2):102-105
Feb 1968 1.9 P69P
Chemical control (plant diseases), Cherries, Crown galls, Fumigants, Greenhouse culture, Methyl bromide, Seedlings, Soil temperature, Soil testing.

17974-68
POTATO SPINDLE TUBER VIRUS: IN SITU SENSITIVITY OF THE INFECTIOUS AGENT TO RIBONUCLEASE. (ABSTRACT).
T O Diener
Phytopathology 58(8):1048
Aug 1968 464.8 P56
Allergies, Potatoes, Ribonucleic acid, Spindle tuber (potatoes), Virus diseases (plants).

17975-68
OCCURRENCE OF POPLAR CANKERS CAUSED BY FUSARIUM SOLANI IN IOWA.
L S Dochinger
Plant Dis Rep 51(11):900-903 REF
Nov 1967 1.9 P69P
Canker (populus), Fungus diseases (plants), Fusarium solani, Populus alba, Populus deltoides, Populus grandidentata.

17976-68
EFFECT OF SOIL STERILIZATION AND SOIL TYPE ON APPARENT SUSCEPTIBILITY OF TWO MUSKMELON VARIETIES TO FUSARIUM OXYSPORUM F. SP. MELONIS. (ABSTRACT).
D R Douglas C J Eide
Phytopathology 58(8):1048
Aug 1968 464.8 P56
Fungus diseases (plants), Fusarium oxysporum, Muskmelons, Plant disease resistance, Soil analysis, Soil sterilization.

17977-68
EFFECT OF UROMYCES PHASEOLI ON THE WATER RELATIONS OF PRIMARY BEAN LEAVES. (ABSTRACT).
J M Duniway R D Durbin
Phytopathology 58(8):1049
Aug 1968 464.8 P56
Beans, Leaves, Plant physiology, Plant water relations, Uromyces phaseoli.

17978-68
EFFECTIVENESS OF SPECIFIC GENES AND GENE COMBINATIONS IN CONFERRING RESISTANCE TO RACES OF XANTHOMONAS MALVACEARUM IN UPLAND COTTON. (ABSTRACT).
K M El-Zik L S Bird
Phytopathology 58(8):1049
Aug 1968 464.8 P56
Bacterial diseases (plants), Cotton, Genes, Genetics, Plant disease resistance, Xanthomonas malvacearum.

17979-68
MYCELIAL GROWTH AND PRODUCTION OF OOSPORES AS AFFECTED BY BETA-SITOSTEROL, AND THE GERMINATION OF OOSPORES OF PHYTOPHTHORA MEGASPERMA VAR. SOJAE. (ABSTRACT).
D C Erwin J E Partridge W H McCormick
Phytopathology 58(8):1049
Aug 1968 464.8 P56
Agar, Beta-sitosterol, Fungus diseases (plants), Phytophthora megasperma, Plant physiology, Reproduction, Seed germination, Spores.

17980-68
THE SUPPRESSION OF ACTINOMYCETES BY PCNB IN CULTURE MEDIA USED FOR ENUMERATING SOIL BACTERIA.
J D Farley J L Lockwood
Phytopathology 58(5):714-715
May 1968 464.8 P56
Actinomycetes, Biochemistry, Culture media, Pentachloronitrobenzene, Soil bacteria, Soil microbiology.

17981-68
CHEMICAL CONTROL OF SCAB AND ANTHRACNOSE ON SUSCEPTIBLE VARIETIES OF CITRUS IN FLORIDA. (ABSTRACT).
F E Fisher
Phytopathology 58(5):553
May 1968 464.8 P56
Anthracnose (citrus), Chemical control (plant diseases), Citrus, Colletotrichum glocosporioides, Elsinoe fawcetti, Plant diseases, Scab (citrus). Abstract of meeting of Caribbean Division of American Phytopathological Society, 1967

17982-68
RELATIONSHIP BETWEEN FREE AMINO ACIDS AND SYMPTOM EXPRESSION IN CORN INFECTED WITH MAIZE DWARF MOSAIC VIRUS OR SUGARCANE MOSAIC VIRUS. (ABSTRACT).
R E Ford J C Tu
Phytopathology 58(8):1050
Aug 1968 464.8 P56
Amino acids, Corn, Dwarf mosaic (corn), Mosaic (sugarcane).

17983-68
LOCAL LESION DEVELOPMENT IN TURKISH TOBACCO LEAVES HEATED AFTER INOCULATION WITH TOBACCO MOSAIC VIRUS. (ABSTRACT).
J A Foster A F Ross
Phytopathology 58(8):1050
Aug 1968 464.8 P56
Injections, Leaves, Mosaic (tobacco), Temperature, Tobacco, Virus diseases (plants).

17984-68
INCIDENCE AND PATHOGENICITY OF FUNGI FOUND ON CRANBERRY IN WISCONSIN.
R J Friend
Diss Abstr Sect B 29(2):438B
Aug 1968 Z5055.U49D53
Cranberries, Fungi, Fungus diseases (plants).

17985-68
INVESTIGATIONS OF THE MECHANISM OF THE NECROTIC RESPONSE OF NICOTIANA TABACUM L. VAR. SAMSUN NN TO INFECTION WITH TOBACCO MOSAIC VIRUS.
H Gaona-Rodriguez
Diss Abstr Sect B 29(2):438B-439B
Aug 1968 Z5055.U49D53
Mosaic (tobacco), Necrosis, Plant physiology, Research, Tobacco, Virus diseases (plants).

17986-68
ULTRASTRUCTURE OF ZEA MAYS LEAF CELLS INFECTED WITH JOHNSON GRASS STRAIN OF SUGARCANE MOSAIC VIRUS. (ABSTRACT).
W S Gardner
Phytopathology 58(8):1050-1051
Aug 1968 464.8 P56
Anatomy, Cells, Corn, Leaves, Mosaic (sugarcane), Sorghum halepense, Virus diseases (plants).

17987-68
SEEDLING RESISTANCE TO POWDERY MILDEW OF PURDUE 5752CL-7-5-1 WHEAT DERIVED FROM TRITICUM TIMOPHEEVI. (ABSTRACT).
M S Ghemawat C B Kenaga J F Schafer
Phytopathology 58(8):1051
Aug 1968 464.8 P56
Fungus diseases (plants), Plant disease resistance, Powdery mildew (wheat), Seedlings, Timopheevi wheat, Wheat.

17988-68
RELATIONSHIP OF ETHYLENE TO CURLY TOP SYMPTOMS. (ABSTRACT).
A H Gold G Faccioli
Phytopathology 58(8):1052
Aug 1968 464.8 P56
Biochemistry, Curly top (sugar beets), Ethylene, Sugar beets, Virus diseases (plants).

17989-68
ULTRASTRUCTURAL CHANGES IN APPLE LEAF CELLS INDUCED BY VIRULENT AND AVIRULENT STRAINS OF ERWINIA AMYLOVORA. (ABSTRACT).
R N Goodman A Burkowicz
Phytopathology 58(8):1052
Aug 1968 464.8 P56
Anatomy, Apples, Bacterial diseases (plants), Cells, Erwinia amylovora, Leaves.

17990-68
EFFECTS OF BARLEY STRIPE MOSAIC VIRUS INFECTION ON THE RESPIRATION OF BARLEY LEAVES. (ABSTRACT).
D T Gordon D C Arny
Phytopathology 58(8):1052
Aug 1968 464.8 P56
Barley, Leaves, Plant physiology, Respiration, Stripe mosaic (barley), Virus diseases (plants).

17991-68
THE EFFECT OF POLYPLOIDY ON PLANT VIRUS REPLICATION AND CONTROL.
D E Harder
Diss Abstr Sect B 29(2):439B-440B
Aug 1968 Z5055.U49D53
Pest control, Polyploidy, Reproduction, Virus diseases (plants).

17992-68
THE DEVELOPMENT OF ALBUGO CANDIDA-INDUCED 'GREEN ISLANDS' ON BRASSICA JUNCEA COTYLEDONS.
H Harding
Diss Abstr Sect B 29(2):440B
Aug 1968 Z5055.U49D53
Albugo, Brassica juncea, Fungus diseases (plants), Plant physiology.

17993-68
HIGH-TEMPERATURE-INDUCED INSOLUBLE COAT PROTEIN IN TOBACCO MOSAIC VIRUS (TMV)-INFECTED PLANTS. (ABSTRACT).
V Hariharasubramanian M Zaitlin
Phytopathology 58(8):1052-1053
Aug 1968 464.8 P56
Mosaic (tobacco), Proteins, Temperature, Tobacco, Virus diseases (plants).

17994-68
THE ROLE OF COTTON AND BEAN SEED EXUDATE IN PRE-EMERGENCE INFECTION BY RHIZOCTONIA SOLANI.
D S Hayman
Diss Abstr Sect B 29(1):10B
Jul 1968 Z5055.U49D53
Amino acids, Beans, Cotton, Fungus diseases (plants), Peas, Plant physiology, Research, Rhizoctonia solani, Seed germination, Seedlings, Temperature, Tissues.

17995-68
EFFECT OF MODERATE ADULT RESISTANCE ON PENETRATION, HYPHAL GROWTH RATES, AND UREDIOSPORE PRODUCTION BY CROWN RUST OF OATS. (ABSTRACT).
A S Heagle M B Moore
Phytopathology 58(8):1053
Aug 1968 464.8 P56
Crown rust (oats), Fungus diseases (plants), Oats, Plant disease resistance, Plant physiology, Puccinia coronata, Reproduction.

17996-68
SYSTEMIC-CHEMICAL PAINTS FOR THE CONTROL OF CYTOSPORA CANKER DISEASE IN PRUNE TREES.
A W Helton W J Kochan
Plant Dis Rep 52(2) 154-157
Feb 1968 1.9 P69P
Canker (plums), Cycloheximide thiosemicarbazone, Cytospora cincta, Dimethyl sulfoxide, Fungicides, Linseed oil, Plant diseases, Plums, Water.

17997-68
PREVALENCE OF THIELAVIOPSIS BASICOLA IN NATURALLY INFESTED SOIL AFTER CULTIVATION OF VARIOUS CROPS FOR FIVE CONSECUTIVE YEARS. (ABSTRACT).
L Henson C C Litton G W Stokes
Phytopathology 58(8):1053
Aug 1968 464.8 P56
Field crops, Population, Soil fungi, Thielaviopsis basicola, Tillage, Time.

17998-68
AN INVESTIGATION OF THE TOBACCO MOSAIC VIRUS MULTIPLICATION PROCESS AND ITS EFFECT ON THE METABOLISM OF THE HOST.
A Hirai
Diss Abstr Sect B 29(2):497B-648B
Aug 1968 Z5055.U49D53
Metabolism, Mosaic (tobacco), Reproduction, Research, Tobacco, Virus diseases (plants).

17999-68
ASCOSPORE PRODUCTION, DISCHARGE AND INFECTION BY GLOMERELLA CINGULATA CAUSING COFFEE BERRY DISEASE.
D Hocking J C Johanns H Vermeulen
Nature 214(5093):1144-1145 REF
10 Jun 1967 472 N21
Ascospores, Coffee berry disease, Economics, Fungus diseases (plants), Glomerella cingulata, Plant disease transmission, Plant morphology, Rainfall, Reproduction, Research.

18000-68
COMPARATIVE PHYSIOLOGY OF PINUS MONTICOLA DOUGL. RESISTANT AND SUSCEPTIBLE TO CRONARTIUM RIBICOLA J. C. FISCH. EX. RABENH.
R J Hoff
Diss Abstr Sect B 29(2):441B
Aug 1968 Z5055.U49D53
Cronartium ribicola, Fungus diseases (plants), Pinus monticola, Plant disease resistance, Plant physiology.

18001-68
EXOCORTIS IN ORTANIQUE ORANGE.
I Hosein
Plant Dis Rep 52(9):741
Sep 1968 1.9 P69P
Exocortis (oranges), Oranges, Research, Roots, Virus diseases (plants).

18002-68
SEROLOGICAL DIAGNOSTIC METHOD WITHOUT ISOLATION OF ERWINIA AMYLOVORA CULTURE FROM A DISEASED PLANT. (RUS)
V P Izrailksy S N Schkljar G I Orlova
Microbiol Espon 36(3):497-502
May 1967 448.3 M583
Antibiotics, Erwinia amylovora, Fire blight (fruit), Physiology, Taxonomy. English and russian abstract
Abstract

18003-68
EFFECT OF SOIL FUNGICIDES ON DEVELOPMENT OF FUNGI IN SOIL AND ON KERNELS OF GROUNDNUT.
A Z Joffe N Lisker
Plant Dis Rep 52(9):718-721
Sep 1968 1.9 P69P
Aspergillus flavus, Chemicals, Crop yields, Fungicides, Fusarium solani, Injections, Peanuts, Seedlings, Soil fungi, Soils.

18004-68
A PHYTOPHTHORA FROM SUBTERRANEAN CLOVER ROOTS THAT ATTACKS SOYBEAN AND OTHER LEGUMES. (ABSTRACT).
H W Johnson B L Keeling
Phytopathology 58(8):1054
Aug 1968 464.8 P56
Fungus diseases (plants), Legumes, Phytophthora, Roots, Soybeans, Subterranean clover.

18005-68
PROTEIN AND ENZYME CHANGES IN WHEAT LEAVES FOLLOWING INFECTION WITH PUCCINIA RECONDITA.
L B Johnson B L Brannaman F P Zscheile
Phytopathology 58(5):578-583 REF
May 1968 464.8 P56
Enzymes, Fungus diseases (plants), Leaves, Proteins, Puccinia recondita, Rust (wheat), Wheat.

18006-68
POTENTIAL OF THE RHIZOBIUM-FUSARIUM INTERACTIONS ON THE INCIDENCE OF ALFALFA ROOT ROT.
H W Johnston
Diss Abstr Sect B 29(2):441B-442B
Aug 1968 Z5055.U49D53
Alfalfa, Fusarium, Rhizobium, Root rot (alfalfa).

18007-68
TOBACCO NECROSIS VIRUS AND ITS SATELLITE VIRUS.
B Kassanis
Nature 214(5084)178
08 Apr 1967 472 N21
Culture media, Necrosis, Research, Tobacco, Viruses.

18008-68
ISOLATION AND PROPERTIES OF PLASMODIOPHORA BRASSICAE PLASMODIA FROM INFECTED CRUCIFER TISSUES AND TISSUE CULTURE CALLUS. (ABSTRACT).
N T Keen M N Reddy P H Williams
Phytopathology 58(8):1054
Aug 1968 464.8 P56
Callus (plants), Cruciferae, Fungus diseases (plants), Plasmodiophora brassicae, Properties, Tissue culture, Tissues.

18009-68
THE RESPONSE OF BEAN TO OZONE AS RELATED TO INFECTION BY PSEUDOMONAS PHASEOLICOLA. (ABSTRACT).
E D Kerr R A Reinert
Phytopathology 58(8):1055
Aug 1968 464.8 P56
Beans, Biochemistry, Fungus diseases (plants), Ozone, Pseudomonas phaseolicola.

18010-68
GENETIC VARIATION IN SUSCEPTIBILITY TO FUSIFORM RUST IN A WILD POPULATION OF LOBLOLLY PINE. (ABSTRACT).
B B Jr. Kinloch
Phytopathology 58(8):1055
Aug 1968 464.8 P56
Cronartium fusiforme, Fungus diseases (plants), Genetics, Pinus taeda, Plant disease resistance, Rust (pinus taeda).

18011-68
STUDIES ON THE EFFECTS OF HG(II) AND SUCROSE ON THE MECHANICAL TRANSMISSION OF TOBACCO MOSAIC VIRUS RIBONUCLEIC ACID TO PINTO BEAN (PHASEOLUS VULGARIS L.).
J R Kongsvik
Diss Abstr Sect B 29(2):442B-443B
Aug 1968 Z5055.U49D53
Injections, Kidney beans, Mercury, Mosaic (tobacco), Research, Ribonucleic acid, Sucrose, Virus diseases (plants).

18012-68
BIOLOGICAL AND ECOLOGICAL RELATIONSHIPS OF THE FUNGUS, ENTOMOPHTHORA CORONATA (COSTANTIN) KEVORKIAN AND THE GARDEN SYMPHYLAN, SCUTIGERELLA IMMACULATA (NEWPORT).
R F Koontz
Diss Abstr Sect B 29(2):646B
Aug 1968 Z5055.U49D53
Biology, Ecology, Entomophthora coronata, Fungi, Scutigerella immaculata.

18013-68
EFFECT OF VARIETY ON THE CONTROL OF POTATO LATE BLIGHT WITH FUNGICIDES. (ABSTRACT).
R E Kroll C J Eide
Phytopathology 58(8):1056
Aug 1968 464.8 P56
Chemical control (pests), Fungicides, Fungus diseases (plants), Late blight (potatoes), Potatoes.

18014-68
INTERCEPTIONS OF PLANT DISEASES THROUGH THE PORT OF BOMBAY.
T B Lal
Plant Protect Bull 18(2):9-13
1966 421 P69
Airports, Foreign trade, Import control, Plant diseases, Plant quarantine.

18015-68
RACES OF PUCCINIA POLYSORA IN NIGERIA.
G M Lallmahomed J Craig
Plant Dis Rep 52(2):136-138
Feb 1968 1.9 P69P
Corn, Fungus diseases (plants), Greenhouse culture, Humidity, Plant physiology, Puccinia polysora, Puccinia sorghi, Rust (corn), Seedlings.

18016-68
RELATIONSHIPS AMONG RACES OF PYRICULARIA ORYZAE. (ABSTRACT.
F M Latterell M A Marchetti
Phytopathology 58(8):1057
Aug 1968 464.8 P56
Blast (rice), Fungus diseases (plants), Immunity, Plant disease resistance, Pyricularia oryzae, Rice.

18017-68
MULTIPLICATION OF PSEUDOMONAS GLYCINEA IN BUDS OF SOYBEAN SEEDLINGS. (ABSTRACT).
C Leben V Rusch A F Schmitthenner
Phytopathology 58(8):1057
Aug 1968 464.8 P56
Fungus diseases (plants), Pseudomonas glycinea, Reproduction, Seedlings, Soybeans.

18018-68
ROLE OF NITROGEN IN WOOD DETERIORATION. VI. MYCELIAL FRACTIONS AND MODEL NITROGEN COMPOUNDS AS SUBSTRATES FOR GROWTH OF POLYPORUS VERSICOLOR AND OTHER WOOD-DESTROYING AND WOOD-INHABITING FUNGI.
M P Levi W Merrill E B Cowling
Phytopathology 58(5):626-634 REF
May 1968 464.8 P56
Basidiomycetes, Fungi, Nitrogen compounds, Plant diseases, Polyporus versicolor, Tree injuries, Wood decay, Wood destroying fungi.

18019-68
EFFECT OF RUTIN AND ITS DEGRADATION PRODUCTS ON FUSARIUM ROOT ROT OF BEAN. (ABSTRACT).
J A Lewis
Phytopathology 58(8):1057
Aug 1968 464.8 P56
Degradation, Fungus diseases (plants), Fusarium solani phaseoli, Root rot (beans), Rutin.

18020-68
PHYTOALEXIN PRODUCTION IN CORN RESISTANT TO HELMINTHOSPORIUM TURCICUM.
S M Lim J D Paxton A L Hooker

Phytopathology 58(5):720-721
May 1968 464.8 P56
Corn, Fungus diseases (plants), Genes, Helminthosporium turcicum, Phytoalexin, Plant genetics, Plant pest resistance.

18021-68
STIMULATION OF SCLEROTIUM ROLFSII AND ITS ANTAGONISTS BY VOLATILE COMPONENTS OF ALFALFA HAY. (ABSTRACT).
R G Linderman R G Gilbert
Phytopathology 58(8):1057
Aug 1968 464.8 P56
Alfalfa, Competition, Fungus diseases (plants), Hay, Sclerotium rolfsii.

18022-68
STEM RUST INFECTION AND DEVELOPMENT IN ARTIFICIALLY INOCULATED FIELDS OF WHEAT AT HAYS, KANS., AND ITS EFFECT ON YIELD, 1960 TO 1965. (ABSTRACT).
R F Line C E Peet C H Kingsolver
Phytopathology 58(8):1057-1058
Aug 1968 464.8 P56
Fungus diseases (plants), Puccinia graminis, Stem rust (wheat), Wheat.

18023-68
AUXIN AND CROWN GALL TUMOR INITIATION. (ABSTRACT).
J A Lippincott B B Lippincott
Phytopathology 58(8):1058
Aug 1968 464.8 P56
Agrobacterium tumefaciens, Bacterial diseases (plants), Beans, Crown galls (beans), Indoleacetic acid, Plant hormones.

18024-68
A SECOND GENE FOR RESISTANCE TO PUCCINIA GRAMINIS F SP TRITICI IN THE RED EGYPTIAN 2D WHEAT SUBSTITUTION LINE.
W Q Loegering
Phytopathology 58(5):584-586
May 1968 464.8 P56
Plant breeding, Plant disease resistance, Plant genetics, Poulard wheat, Puccinia graminis tritici. Spanish summary

18025-68
DIFFERENTIATION OF RACES OF PSEUDOMONAS SOLANACEARUM BY A HYPERSENSITIVE REACTION OF TOBACCO LEAVES. (ABSTRACT).
J C Lozano L Sequeira
Phytopathology 58(8):1058
Aug 1968 464.8 P56
Allergies, Bacterial diseases (plants), Leaves, Pseudomonas solanacearum, Tobacco.

18026-68
LOW LIGHT INTENSITY PROMOTES MELTING OUT OF BLUEGRASS. (ABSTRACT).
R J Lukens
Phytopathology 58(8):1058
Aug 1968 464.8 P56
Epidemiology, Fungus diseases (plants), Helminthosporium vagans, Lighting, Melting out (poa), Poa.

18027-68
RESISTANCE BREAKDOWN IN MAIZE TO MAIZE DWARF MOSAIC VIRUS AFTER TREATMENT WITH ATRAZINE. (ABSTRACT).
D R MacKenzie H Cole C D Ercegovich
Phytopathology 58(8):1058
Aug 1968 464.8 P56
Atrazine, Biochemistry, Corn, Dwarf mosaic (corn), Plant disease resistance, Therapeutics, Virus diseases (plants).

18028-68
INFLUENCE OF NITROGEN NUTRITION ON FUSARIUM ROOT ROT OF PINTO BEAN AND ON ITS SUPPRESSION BY BARLEY STRAW.
C R Maier
Phytopathology 58(5):620-625 REF
May 1968 464.8 P56
Barley straw, Fusarium, Kidney beans, Nitrogen, Nutrition, Plant diseases, Root rot (beans).

18029-68
INDUCED RESISTANCE TO BACTERIAL WILT IN SUSCEPTIBLE TOBACCO CUTTINGS PRETREATED WITH AVIRULENT MUTANTS OF PSEUDOMONAS. (ABSTRACT).
C E Main
Phytopathology 58(8):1058-1059
Aug 1968 464.8 P56
Bacterial diseases (plants), Mutation, Plant cuttings, Plant disease resistance, Pseudomonas, Tobacco, Wilt (tobacco).

18030-68
CONCENTRATIONS OF SOLUTES IN BLISTER RUST INFECTIONS OF WESTERN WHITE PINE. (ABSTRACT).
N E Martin
Phytopathology 58(8):1059
Aug 1968 464.8 P56
Blister rust (pinus monticola), Cronartium ribicola, Fungus diseases (plants), Pinus monticola, Solutes.

18031-68
RELATION OF INVASION OF CEREAL GRAINS AND OIL SEEDS BY STORAGE FUNGI TO INCREASE IN TOTAL AND MAJOR INDIVIDUAL FATTY ACIDS. (ABSTRACT).
D C McGee C M Christensen
Phytopathology 58(8):1059-1060
Aug 1968 464.8 P56
Fatty acids, Fungus diseases (plants), Grain, Oilseeds, Storage.

18032-68
A STUDY ON AUXIN AND CHLOROGENIC ACID IN LEAF-ROLL RESISTANT AND SUSCEPTIBLE POTATO VARIETIES.
R T McMillan
Diss Abstr Sect B 29(2):443B
Aug 1968 Z5055.U49D53
Chlorogenic acid, Leaf roll (potatoes), Plant disease resistance, Plant hormones, Potatoes, Research, Virus diseases (plants).

18033-68
ALTERNARIA TENUIS ON ANTIRRHINUM.
S C Melville T E Chalk
Plant Pathol 17(2):95
Jun 1968 464.8 P692
Alternaria tenuis, Antirrhinum majus, Fungus diseases (plants), Injections, Nurseries, Seedlings, Spraying.

18034-68
EFFECT OF CONTROL PROGRAMS ON DEVELOPMENT OF EPIDEMICS OF DUTCH ELM DISEASE. (ABSTRACT).
W Merrill
Phytopathology 58(8):1060
Aug 1968 464.8 P56
Dieback (ulmus), Epidemiology, Plant diseases, Plant protection, Ulmus.

18035-68
AN ARYLSULFATASE IN THE WOOD ROTTING BASIDIOMYCETE, FOMES GEOTROPUS.
F H Millazzo G J Lougheedi
Can J Bot 45(4):532-534
Apr 1967 470 C16C
Arylsulfatase, Basidiomycetes, Fomes geotropus, Plant metabolism, Wood destroying fungi.

18036-68
INTERACTION OF MELOIDOGYNE JAVANICA AND PHYTOPHTHORA PARASITICA VAR NICOTIANAE ON NICOTIANA TABACUM (N. C. 95.' (ABSTRACT).
C R Miller
Phytopathology 58(5):553
May 1968 464.8 P56
Black shank (tobacco), Fungus diseases (plants), Meloidogyne incognita, Meloidogyne javanica, Nematodes, Phytophthora parasitica nicotianae, Tobacco. Abstract of meeting of Caribbean Division of American Phytopathological Society, 1967

18037-68
IDENTIFICATION OF STRAINS OF WATERMELON MOSAIC VIRUS BY SEROLOGY AND OTHER CHARACTERISTICS. (ABSTRACT).
K S Milne R G Grogan
Phytopathology 58(8):1060
Aug 1968 464.8 P56
Mosaic (watermelons), Properties, Serological tests, Virus diseases (plants), Watermelons.

18038-68
ENVIRONMENTAL EFFECTS AND TRANSFER EVENTS DURING PRIMARY INFECTION OF WHEAT BY ERYSIPHE GRAMINIS.
M S Mount
Diss Abstr Sect B 29(2):444B
Aug 1968 Z5055.U49D53
Environment, Erysiphe graminis, Fungus diseases (plants), Wheat.

18039-68
TRANSMISSION OF A LEAFHOPPER-BORNE VIRUS FROM NATURALLY INFECTED POA ANNUA IN CZECHOSLOVAKIA.
A Murtomaa V Valenta
Biologia (bratislava) 23(5):389-392
1968 442.8 B5265
Barley, Cicadellidae, Insect vectors, Poa annua, Virus diseases (plants). Czechoslovakian, russian, german and english abstract
Abstract

18040-68
SOME ADDITIONS TO THE SPECIES OF CERCOSPORA FROM WEST PAKISTAN.
M A Nasir Z Ullah
Pakistan J Sci 19(1-2):45-46
Jan 1967 475 P172
Cercospora alhagi, Cercospora convolvuli, Cercospora medicaginis, Cercospora premnae, Fungus diseases (plants), Plant diseases.

18041-68
INCREASING THE EFFICACY OF FUNGICIDAL CONTROL OF BLACK POD ROT OF CACAO INCITED BY PHYTOPHTHORA PALMIVORA. (ABSTRACT).
A G Newhall
Phytopathology 58(5):553
May 1968 464.8 P56
Black pod (cacao), Cacao, Fungus diseases (plants), Pesticides, Phytophthora palmivora, Spraying. Abstract of meeting of Caribbean Division of American Phytopathological Society, 1967

18042-68
THE PRESENCE OF TRISTEZA VIRUS IN CERTAIN SPECIES OF CITRUS IN CYPRUS.
A Papasolomontos C V Economides
Fao Plant Protect Bull 16(1):8-9 REF
Feb 1968 421 P692
Aphis gossypii, Citrus, Host indexing (plants), Plant disease transmission, Toxoptera aurantii, Tristeza (citrus), Virus diseases (plants).
Abstract: Through an extensive indexing program designed for detecting carriers of tristeza in Cyprus, 4 species of citrus were found to be infected. In spite of the rather wide distribution of infected trees, there appears to have been very little natural spread. This suggests that Aphis gossypii and Toxoptera aurantii are inefficient vectors.

18043-68
FACTORS INFLUENCING AFLATOXIN ACCUMULATION IN PEANUT KERNELS AND THE ASSOCIATED MYCOFLORA.
R E Pettit R A Taber
Appl Microbiol 16(8):1230-1234 REF
Aug 1968 448.3 AP5
Aflatoxin, Aspergillus flavus, Chromatography, Equipment, Fungus diseases (plants), Humidity, Peanuts, Temperature, Weather.

18044-68
ANNALS OF THE PHYTOPATHOLOGICAL SOCIETY OF JAPAN.
Phytopathol Soc Jap Ann 34(3):210 P

May 1968 464.9 P562
Bacterial diseases (plants), Fungicides, Fungus diseases (plants), Phytopathology, Virus diseases (plants).

18045-68
CYTOCHROME OXIDASE AND MITOCHONDRIAL PROTEIN IN EXTRACTS OF LEAVES OF NICOTIANA GLUTINOSA L. INFECTED WITH TOBACCO MOSAIC VIRUS.
W S Pierpoint
J Expt Bot 19(59):264-275 REF
May 1968 450 J8224
Culture media, Cytochrome oxidase, Extracts, Leaves, Mitochondria, Nicotiana glutinosa, Proteins, Virus diseases (plants).

18046-68
FUNGISTATIC CONSTITUENTS IN CITRUS VARIETIES RESISTANT TO THE MAL-SECCO DISEASE.
J Pinkas D Lavie M Chorin
Phytochemistry 7(2):169-174
Feb 1968 450 P5622
Biological assay, Deuterophoma tracheiphila, Flavones, Fungicides, Mal secco (citrus), Plant analysis, Plant biochemistry, Plant disease resistance.

18047-68
TOMATO BUSHY STUNT VIRUS ON TOMATO CROPS IN ARGENTINA.
R E Pontis O Gracia J M Feldman
Plant Dis Rep 52(9):676-677
Sep 1968 1.9 P69P
Bushy stunt (tomatoes), Culture media, Electron microscopy, Research, Serological tests, Tomatoes, Virus diseases (plants).

18048-68
CYTOKININ EFFECT OF BENZYLADENINE: INCREASE OF NUCLEIC ACID AND PROTEIN SYNTHESIS IN BEAN LEAVES.
B I Pozsar M El Hammady Z Kiraly
Nature 214(5085):273-274 REF
15 Apr 1967 472 N21
Beans, Benzyladenine, Kinetin, Leaves, Mosaic (tobacco), Nucleic acids, Plant disease resistance, Plant metabolism, Plant physiology, Proteins, Virus diseases (plants).

18049-68
REPRODUCTION OF THE COCONUT LETHAL YELLOWING SYNDROME BY MECHANICAL INOCULATION OF YOUNG SEEDLINGS.
W C Price A P Martinez D A Roberts
Phytopathology 58(5):593-596 REF
May 1968 464.8 P56
Coconuts, Lethal yellowing (coconuts), Plant diseases, Seedlings.

18050-68
TOLERANCE TO BARLEY YELLOW DWARF IN WINTER OATS.
C O Qualset
Plant Dis Rep 51(11):908-910 REF
Nov 1967 1.9 P69P
Oats, Plant disease resistance, Plant hardiness, Virus diseases (plants), Yellow dwarf (barley), Yellow dwarf (oats).

18051-68
STUDIES ON THE PATHOGEN AND VECTOR OF DUTCH ELM DISEASE. A. MORPHOGENESIS IN CERATOCYSTIS ULMI. B. CHEMICALS STIMULATING FEEDING BY SCOLYTUS MULTISTRIATUS. II. AN IMPROVED METHOD FOR THE ISOLATION OF A TOXIC METABOLITE FROM RHIZOCTONIA LEGUMINICOLA.
D P Rainey
Diss Abstr Sect B 28(11):4419B
May 1968 Z5055.U49D53
Biochemistry, Ceratocystis ulmi, Feed, Fungus diseases (plants), Insect vectors, Metabolites, Rhizoctonia leguminicola, Scolytus multistriatus, Stimulants.

18052-68
THE PATHOGENICITY OF SECONDARY AND TERTIARY BASIDIOSPORES OF CRONARTIUM FUSIFORME.
R W Roncadori
Phytopathology 58(5):712-713 REF
May 1968 464.8 P56
Basidiospores, Cronartium fusiforme, Microorganisms, Pinus, Reproduction, Spore germination.

18053-68
A LEAF BLIGHT OF CORN (ZEA MAYS) INCITED BY FUSARIUM MONILIFORME. (ABSTRACT).
E Schieber A S Muller
Phytopathology 58(5):554
May 1968 464.8 P56
Corn, Fusarium moniliforme, Leaf blight (corn), Leaves, Plant diseases. Abstract of meeting of Caribbean Division of American Phytopathological Society, 1967

18054-68
PRELIMINARY STUDIES ON PHYLLACHORA MAYDIS AFFECTING CORN IN CENTRAL AMERICA. (ABSTRACT).
E Schieber
Phytopathology 58(5):554
May 1968 464.8 P56
Corn, Phyllachora maydis, Plant disease resistance, Tar spot (corn). Abstract of meeting of Caribbean Division of American Phytopathological Society.

18055-68
SUSCEPTIBILITY OF WEAKENED COTTONWOOD STEMS TO FUNGI ASSOCIATED WITH BLACKSTEM.
D F Schoeneweiss
Plant Dis Rep 51(11):933-935
Nov 1967 1.9 P69P
Agricultural research, Canker (populus deltoides), Canker (populus trichocarpa), Cytospora chrysosperma, Fungus diseases (plants), Populus deltoides, Populus trichocarpa, Tree diseases.

18056-68
FACTORS AFFECTING THE INFECTION OF BLACK SPRUCE (PICEA MARIANA MILL.) TRANSPLANTS BY CYLINDROCLADIUM SCOPARIUM.
H Scholten
Diss Abstr Sect B 28(8):3131B
Feb 1968 Z5055.U49D53
Cylindrocladium scoparium, Fungus diseases (plants), Loam, Picea mariana, Transplanting, Trizone.

18057-68
STAND LOSS OF SMALL GRAINS IN FLORIDA.
D Sechler H H Luke
Plant Dis Rep 51(11):919-922
Nov 1967 1.9 P69P
Barley, Helminthosporium sorokinianum, Oats, Plant disease control, Pythium aphanidermatum, Rye, Seed treatment, Soil temperature, Wheat.

18058-68
OCCURRENCE OF AGROPHRON MOSAIC VIRUS IN MONTANA.
J F Shepard
Plant Dis Rep 52(2):139-141 REF
Feb 1968 1.9 P69P
Cytoplasm, Leaves, Morphology, Serological tests, Tissues, Virus diseases (plants), Wheat.

Abstract: Susceptible hosts were Agropyron repens, agropyron elongatum, and Triticum aestivum 'cheyenne'. hosts of low susceptibility were Agropyron trachycaulum and elymus canadensis.

18059-68
CONDITIONS FOR INFECTION OF CELERY BY SEPTORIA APIICOLA.
J E Sheridan
Plant Dis Rep 52(2):142-145
Feb 1968 1.9 P69P
Celery, Distilled water, Environment, Fungus diseases (plants), Greenhouses, Laboratories, Leaves, Septoria apiicola, Spraying.

18060-68
THE FREQUENCY OF PENETRATION OF EPIDERMAL STRIPS AND INTACT WHEAT LEAVES BY PUCCINIA GRAMINIS F. SP. TRITICI.
W A Shipton J F Brown
Phytopathology 58(5):704-705
May 1968 464.8 P56
Frequency distribution, Leaves, Plant diseases, Puccinia graminis tritici, Uredospores, Wheat.

18061-68
THE EFFECT OF DECOMPOSING ORGANIC MATTER ON ZINC LEVEL IN SOIL AND PLANTS.
K S M Shoukry
Diss Abstr Sect B 28(8):3127B
Feb 1968 Z5055.U49D53
Beans, Biological assay, Decomposition, Plant nutritional deficiencies, Soil chemistry, Zinc.

18062-68
CHEMICAL CONTROL OF CORN HEAD SMUT.
W R Simpson H S Fenwick
Plant Dis Rep 52(9):726-727
Sep 1968 1.9 P69P
Chemical control (plant diseases), Crop yields, Head smut (corn), Research, Seeds, Sphacelotheca reiliana, Spraying.

18063-68
CYTOMORPHOLOGICAL FEATURES OFTMV-INFECTED TOBACCO CALLUS CELLS IN TISSUE CULTURE.
M Singh A C Hildebrandt
Phyton (vicente Lopez) 24(1):31-33
May 1967 450 P567
Callus (plants), Mitochondria, Mosaic (tobacco), Plant morphology, Tissue culture, Virus diseases (plants).

18064-68
PATHOGENIC AND CULTURAL VARIATION IN PHYTOPHTHORA NICOTIANAE VAR PARASITICA FROM GREENHOUSE PLANTS.
B S Siradhana C W Ellett A F Schmitthenner
Phytopathology 58(5):718-719
May 1968 464.8 P56
Antirrhinum, Greenhouse culture, Parasitism, Peperomia obtusifolia, Phytophthora parasitica nicotianae, Plant diseases, Saintpaulia, Sinningia, Tomatoes.

18065-68
ADDITIONAL INFORMATION ON THE PATHOGENICITY OF SCLERODERRIS LAGERBERGII.
E Smerlis
Plant Dis Rep 52(9):738-739
Sep 1968 1.9 P69P
Fungus diseases (plants), Injections, Mortality, Research, Scleroderris lagerbergii, Tree diseases, Trees.

18066-68
ALTERATIONS IN THE AUXIN LEVELS OF RESISTANT AND SUSCEPTIBLE HOSTS INDUCED BY THE CURLY TOP VIRUS.
S H Smith S R McCall J H Harris
Phytopathology 58(5):575-577
May 1968 464.8 P56
Beets, Curly top (beets), Curly top (tomatoes), Kidney beans, Plant disease resistance, Plant hormones, Plant regulators, Tomatoes, Virus diseases (plants).

18067-68
CROSS PROTECTION BETWEEN A PLANT VIRUS AND POTATO PSYLLID YELLOWS.
R Staples
J Econ Entomol 61(5):1378-1380 REF
15 Oct 1968 421 J822

Feeding, Insect vectors, Nymphs, Paratrioza cockerelli, Potatoes, Psylla, Temperature, Virus diseases (plants).

18068-68
THE INFLUENCE OF CROP-ROTATION ON THE ATTACK OF CARROTS BY MELDIDOGYNE HAPLA CHITW. AND SYMPTOM FORMATION. (GE)
V W Stein E Richter
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(2):93-98
Feb 1968 464.8 Z3
Carrots, Crop rotation, Meloidogyne hapla, Plant nematodes, Potatoes, Roots. English summary

18069-68
A COMPARATIVE NUTRITIONAL STUDY OF ALTERNARIA RAPHANI, A. BRASSICAE, AND A. BRASSICOLA WITH SPECIAL REFERENCE TO A. RAPHANI.
R A Taber T C Vanterpool W A Taber
Phytopathology 58(5):609-616 REF
May 1968 464.8 P56
Alternaria brassicae, Alternaria brassicicola, Alternaria raphani, Culture media, Nutrition.

18070-68
EFFECTS OF NEMATODE EXTRACTION METHOD, SOIL MIXTURE, AND NEMATODE NUMBERS ON THE TRANSMISSION OF TOBACCO RINGSPOT VIRUS BY XIPHINEMA AMERICANUM.
D. Teliz
Nematologica 13(2):177-185 REF
1967 436.8 N342
Epidemiology, Plant nematodes, Ring spot (tobacco), Soil properties, Virus diseases (plants), Xiphinema americanum. English, german and spanish abstract

Abstract

18071-68
BACTERIAL CANKER OF TOMATO; INOCULUM LEVEL NEEDED FOR INFECTION.
B D Thyr
Plant Dis Rep 52(9):741-743
Sep 1968 1.9 P69P
Bacterial canker (tomatoes), Cells, Corynebacterium michiganense, Mortality, Research, Seedlings, Tissues, Tomatoes.

18072-68
THE SUMMER BIOLOGY OF PUCCINIA STRIIFORMIS IN SOUTHEASTERN WASHINGTON. I. INDUCTION OF INFECTION DURING THE SUMMER.
J C Tu W Hendrix
Plant Dis Rep 51(11):911-914
Nov 1967 1.9 P69P
Infectious diseases, Parasitism, Plant temperature, Puccinia striiformis, Stripe rust (wheat), Urediospores.

18073-68
STUDIES OF THE RESISTANCE OF LOCAL APPLE VARIETIES TO SCAB (VENTURIA INAEQUALIS (CKE.) WINT.) UNDER CLIMATIC CONDITIONS OF CENTRAL ANATOLIA. (TU)
K Turkoglu U Erkal
Bitki Koruma Bulteni 7(2):78-89
1967 464.8 B542
Apples, Climate, Fungus diseases (plants), Scab (apples), Venturia inaequalis. French summary.

18074-68
ULTRASTRUCTURE OF HOST AND PARASITE IN COMPATIBLE AND INCOMPATIBLE INERACTIONS OF ZEA MAYS L. WITH PUCCINIA SORGHI SCHW.
C G Van Dyke
Diss Abstr Sect B 29(2):444B
Aug 1968 Z5055.U49D53
Anatomy, Corn, Fungus diseases (plants), Parasitism, Puccinia sorghi.

18075-68
EFFECT OF MCPA ON LETTUCE PRE-INOCULATED WITH LETTUCE MOSAIC VIRUS.
J M Way
Plant Pathol 17(2):75-77
Jun 1968 464.8 P692
Injections, Mosaic (lettuce), Plant physiology, Research, Spraying, Virus diseases (plants).

18076-68
GENETICS OF REACTION TO PUCCINIA SORGHI IN TEN CORN INBRED LINES FROM AFRICA AND EUROPE.
D R Wilkinson A L Hooker
Phytopathology 58(5):605-608
May 1968 464.8 P56
Corn, Genes, Plant breeding, Plant disease resistance, Plant genetics, Puccinia sorghi.

18077-68
NEW FUNGICIDES EFFECTIVE FOR PECAN SCAB CONTROL IN GEORGIA.
R E Worley S A Harmon
Plant Dis Rep 52:2):108-109
Feb 1968 1.9 P69P
Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Fusicladium effusum, Scab (pecans), Spraying, Tree diseases.

18078-68
CULTURAL AND PATHOGENICITY STUDIES OF INDUCED VARIANTS OF BEAN AND PEA ROOT ROT FUSARIUM SPECIES.
S M Yang D J Hagedorn
Phytopathology 58(5):639-643 REF
May 1968 464.8 P56
Beans, Culture media, Fusarium, Fusarium solani, Peas, Plant diseases, Root rot (beans), Root rot (peas).

18079-68
ROOT ROT AS A CAUSE OF RED CLOVER DECLINE IN LEYS IN FINLAND.
A Ylimaki
Ann Agr Fenn 6(1, SUP):7-59 MAP, REF
1967 20 AN7
Fungus diseases (plants), Red clover, Root rot (red clover).

Abstract

18080-68
ON LIGHT-SENSITIVITY IN GERMINATING UREDOSPORES OF WHEAT BROWN RUST.
J C Zadoks L J M Groenewegen
Neth J Plant Pathol 73(3):83-102
1967 464.8 T44
Brown rust (wheat), Fungus diseases (plants), Light, Plant physiology, Puccinia recondita, Spore germination, Temperature, Wheat.

Abstract: Experiments consisted of 3 phases: Spore production, spore storage, spore germination. The light-inhibited spores germinate rapidly after being placed in darkness with germination rate little affected by duration of light exposure. After a few hours of light exposure a gradually increasing proportion of light-inhibited spores is killed, which means that the reversability of the light-inhibition is limited.

18081-68
RECENT SPREAD AND PRESENT DISTRIBUTION OF FIRE BLIGHT IN THE WORLD.
T Van Der Zwet
Plant Dis Rep 52(9):698-699
Sep 1968 1.9 P69P
Erwinia amylovora, Geography, Pseudomonas syringae, Reports, Research.

ARTHROPODS

18082-68
SYSTEMATIC INSECTICIDE SEED TREATMENT TESTS ON SOYBEANS. BOWLING, C C.
J Econ Entomol 61(5):1224-1227
15 Oct 1968 421 J822
Biochemistry, Chemical control (insects), Diabrotica undecimpunctata howardi, Insect pests, Insecticide application, Insecticides, Plant physiology, Seed germination, Seedlings, Soybeans.

18083-68
ALUMINUM FOIL AND WHITE POLYETHYLENE MULCHES TO REPEL APHIDS AND CONTROL WATERMELON MOSAIC.
W C Adlerz P H Everett
J Econ Entomol 61(5):1276-1279 REF
15 Oct 1968 421 J822
Aluminum foil, Aphididae, Chemical control (insects), Insect pests, Insect repellents, Insect traps, Insect vectors, Mosaic (watermelons), Mulches, Polyethylene, Virus diseases (plants).

18084-68
SURVIVAL OF THE BALSAM WOOLLY APHID ON ABIES LOGS.
M D Atkins T A D Woods
Can Entomol 100(4):412-420 MAP
Apr 1968 421 C16
Abies grandis, Chermes piceae, Insect biology, Insect dissemination, Insect pests, Logs, Parasitism, Saline water.

18085-68
NATURAL ACQUISITION COMPARED WITH MECHANICAL INOCULATION OF SIX-SPOTTED LEAFHOPPERS FOR TRANSMISSION OF THE OAT BLUE DWARF VIRUS. (ABSTRACT).
E E Banttari R J Zeyen
Phytopathology 58(8):1042
Aug 1968 464.8 P56
Blue dwarf (oats), Cicadellidae, Injections, Insect vectors, Oats, Virus diseases (plants).

18086-68
CONTROL OF THE BIRCH LEAF MINOR WITH DISULFOTON.
H H Cheng E J LeRoux
Can Entomol 100(4):350-357 REF
Apr 1968 421 C16
Betula, Biochemistry, Chemical control (insects), Disulfoton, Dosage, Fenusa pusilla, Inseeticide application, Insecticides, Leaves, Population.

18087-68
EFFECTS ON POPULATIONS OF CORN ROOTWORMS OF ALDRIN RESIDUES IN SOIL FOUR YEARS AFTER APPLICATION.
H C Chiang R S Raros
J Econ Entomol 61(5):1204-1208
15 Oct 1968 421 J822
Aldrin, Biochemistry, Corn, Crop yields, Diabrotica longicornis, Diabrotica virgifera, Insecticide residues, Parathion, Population, Soils.

18088-68
BLACK VINE WEEVIL LARVAL DAMAGE TO CONCORD GRAPE ROOTS AT DIFFERENT POPULATION DENSITIES.
W W Cone
J Econ Entomol 61(5):1220-1224
15 Oct 1968 421 J822
Brachyrhinus sulcatus, Grapes, Insect cages, Insect eggs, Insect pests, Larvae, Plant injuries, Population, Roots.

18089-68
APHID VECTORS OF BARLEY YELLOW DWARF VIRUS IN BLACKLIGHT TRAPS IN EASTERN UNITED STATES.
B F Coon
J Econ Entomol 61(5):1279-1282
15 Oct 1968 421 J822
Aphididae, Insect flight, Insect vectors, Light traps, Macrosiphum avenae, Rhopalosiphum maidis, Rhopalosiphum padi, Schizaphis graminum, Tables (data), Virus diseases (plants), Yellow dwarf (barley).

18090-68
STUDIES ON A BIOLOGICAL AND A CHEMICAL METHOD OF CONTROLLING THE DARK RICE FIELD MOSQUITO IN LOUISIANA.

B R Craven C D Steelman
J Econ Entomol 61(5) 1333-1336 REF
15 Oct 1968 421 J822
Biochemistry, Biological control (insects), Gambusia affinis, Insect pests, Insecticides, Population, Psorophora confinnis, Rice, Tables (data).

18091-68
FURTHER EVALUATION OF ACARICIDES FOR BROWN WHEAT MITE CONTROL ON WINTER WHEAT IN KANSAS, 1963-65.
L J DePew
J Econ Entomol 61(5) 1171-1174
15 Oct 1968 421 J822
Acaricides, Biochemistry, Chemical control (insects), Crop yields, Pesticide application, Petrobia latens, Population, Research, Seedlings, Spraying, Tables (data), Wheat.

18092-68
CEREAL LEAF MINER IN THE SOUTH-EAST REGION.
C M G Duthoit
Plant Pathol 17(2):61-65
Jun 1968 464.8 P692
Agromyzidae, Parasitic insects, Plant injuries, Research, Surveys.

18093-68
RESIDUES OF DIAZINON IN CARROTS AFTER TREATMENT AGAINST CYCLODIENE-RESISTANT CARROT RUST FLY.
D G Finlayson I H Williams H G Fulton
J Econ Entomol 61(5):1174-1176 REF
15 Oct 1968 421 J822
Assay, Carrots, Chemical control (insects), Cyclodiene, Diazinon, Dosage, Insecticide application, Insecticide residues, Plant hardiness, Psila rosae.

18094-68
EFFECTS OF EARLY-, MID-, AND LATE-SEASON INFESTATIONS OF TWO-SPOTTED SPIDER MITES ON THE YIELD OF COTTON.
R E Furr T R Perimmer
J Econ Entomol 61(5):1446-1447
15 Oct 1968 421 J822
Cotton, Crop yields, Insect control, Insect pests, Leaves, Plant injuries, Temperature, Tetranychus, Weather.

18095-68
TESTS WITH INSECTICIDES FOR THE CONTROL OF RESISTANT MYZUS PERSICAE (SULZER) ON YEAR-ROUND CHRYSANTHEMUMS.
H J Gould
Plant Pathol 17(2):88-94
Jun 1968 464.8 P692
Carbamates, Chemicals, Chrysanthemum, Insecticides, Myzus persicae, Organic compounds, Pesticides, Phosphorus, Research, Spraying, Toxicology.

18096-68
A BIOASSAY TECHNIQUE FOR SCREENING FEEDING STIMULANTS FOR LARVAE OF TOBACCO BUDWORM.
A A Guerra T N Shaver
J Econ Entomol 61(5):1398-1399
15 Oct 1968 421 J822
Attractants, Biological assay, Corn, Cotton, Feeding, Heliothis virescens, Insect pests, Larvae, Plant extracts, Research, Water.

18097-68
SURVIVAL OF RHOPALOSIPHUM PADI IN STORED GRAIN DURING COLD WEATHER.
A M Harper P E Blakeley
J Econ Entomol 61(5):1455
15 Oct 1968 421 J822
Cold, Grain, Research, Rhopalosiphum padi, Storage, Temperature, Weather.

18098-68
THE USE OF MENAZON SEED DRESSING TO DECREASE SPREAD OF VIRUS YELLOWS IN SUGAR-BEET ROOT CROPS.
G D Heathcote
Ann Appl Biol 62(1) 113-118
Aug 1968 442.8 AN72
Aphididae, Insect vectors, Insecticides, Menazon, Roots, Seed treatment, Sugar beets, Virus diseases (plants), Yellows (sugar beets).

18099-68
LACK OF CYTOPLASMIC INHERITANCE OF ALFALFA RESISTANCE TO THE SPOTTED ALFALFA APHID.
S D Kindler R Staples
J Econ Entomol 61(5):1455-1456
15 Oct 1968 421 J822
Alfalfa, Breeding, Cytoplasm, Immunity, Insect pests, Plant genetics, Plant hardiness, Research, Therioaphis maculata.

18100-68
OVIPOSITION PREFERENCES OF WESTERN CORN ROOTWORMS FOR VARIOUS SOIL SURFACE CONDITIONS.
V M Kirk C O Calkins F J Post
J Econ Entomol 61(5):1322-1324
15 Oct 1968 421 J822
Diabrotica virgifera, Experimental insects, Insect pests, Ovulation, Plant injuries, Research, Soils.

18101-68
STUDIES OF THE INSECT COMPLEX AFFECTING SEED PRODUCTION OF PONDEROSA PINE IN CALIFORNIA.
T W Koerber
Diss Abstr Sect B 29(1):229B
Jul 1968 Z5055.U49D53
Insect control, Insect pests, Pinus ponderosa, Research, Seedlings, Tree injuries.

18102-68
ISOLATION AND ELECTRON MICROSCOPY OF POTATO LEAFROLL VIRUS FROM PLANTS.
M Kojima E Shikata M Sugawara D Murayama
Virology 35(4):612-615 REF
Aug 1968 448.8 V81
Electron microscopes, Insect vectors, Leaf roll (potatoes), Myzus persicae, Potatoes, Virus diseases (plants).

18103-68
INTRODUCTION TO BACILLUS THURINGIENSIS AND ITS USES. (GE)
A Krieg
Berlin Biol Bundesanst Land-forstwirtsch Mitt 125,87P REF
Nov 1967 410.9 G31M
Bacillus anthracis, Bacillus cereus, Bacillus thuringiensis, Biochemistry, Morphology, Pest control, Taxonomy.

18104-68
RESISTANCE IN BERMUDAGRASS TO THE FALL ARMYWORM.
D B Leuck C M Taliaferro G W Burton R L Burton M C Bowman
J Econ Entomol 61(5):1321-1322
15 Oct 1968 421 J822
Benzoxazolinone, Cynodon dactylon, Insect pests, Larvae, Plant extracts, Plant hardiness, Spodoptera frugiperda.

18105-68
INSECT PESTS OF NIGERIAN CROPS.
J L Libby
Wis Agr Exp Sta Bull 269,69P.
Feb 1968 100 W75 (1)
Crop yields, Insect pests, Plant protection.

18106-68
IMPROVED TECHNIQUE TO CONTROL SHOT HOLE BORERS AND BARK BEETLES.
R A Malik
Plant Protect Bull 18(1):29-30
1966 421 P69
Insect control, Insect pests, Plant protection, Preventive medicine, Scolytidae, Scolytus rugulosus, Trees.

18107-68
REINFESTATION OF FOREST SITES BY THE TEXAS LEAF-CUTTING ANT.
W F Mann
J Econ Entomol 61(5).1460-1461
15 Oct 1968 421 J822
Atta texana, Biochemistry, Chemical control (insects), Forests, Fumigation, Insect pests, Methyl bromide, Research, Tree injuries.

18108-68
OCCURRENCE OF FIBER CONTAINING FLUORESCENT SPOTS ASSOCIATED WITH ASPERGILLUS FLAVUS BOLL ROT IN THE U. S. COTTON CROP OF 1967.
P B Marsh M E Simpson
Plant Dis Rep 52(9):671-674
Sep 1968 1.9 P69P
Aspergillus flavus, Cotton, Geography, Insect dissemination, Research, Surveys.

18109-68
ATTEMPTS AT COMBATTING OYSTERSHELL SCALE, LEPIDOSAPHES ULMI (L.),ON APPLETREES IN ORCHARDS OF QUEBEC. (FR)
B Parent D Pitre
Phytoprotection 49(1):26-37 REF
Feb 1968 464.8 P566
Apples, Ethion, Insecticides, Lepidosaphes ulmi, Oils, Plant injuries, Plant protection, Trees. English summary

18110-68
LOSS OF PHORATE FROM A GRANULAR FORMULATION APPLIED IN THE SOIL.
R S Patterson W A Rawlins
Fla Entomol 51(3):143-150
Sep 1968 420 F662
Humidity, Insecticide residues, Phorate, Plant translocation, Plants, Research, Soils, Toxicology, Weather.

18111-68
WESTERN CORN ROOTWORM EGG DISTRIBUTION AND ADULT EMERGENCE UNDER TWO CORN TILLAGE SYSTEMS.
K P Pruess G T Weekman B R Somerhalder
J Econ Entomol 61(5):1424-1427
15 Oct 1968 421 J822
Corn, Diabrotica virgifera, Insect dissemination, Insect eggs, Planting, Seedlings, Soils, Tillage, Zoogeography.

18112-68
THE TOLERANCE OF IMPORTED COMMODITIES TO FUMIGATION WITH METHYL BROMIDE.
H Roth H H Richardson
J Econ Entomol 61(5):1435-1437
15 Oct 1968 421 J822
Biochemistry, Broadbeans, Chemical control (insects), Dosage, Foreign trade, Fumigation, Insecticides, Methyl bromide, Muskmelons, Research, Temperature, Tribolium confusum.

18113-68
STUDIES ON HYDROGEN PHOSPHIDE AGAINST THE RED FLOUR BEETLE IN A COLUMN OF PADDY.
G Rout S C Parida
J Econ Entomol 61(5):1145-1147
15 Oct 1968 421 J822
Aluminum, Biochemistry, Cotton, Dosage, Fumigants, Insect pests, Phosphine, Rice, Tables (data), Tribolium castaneum.

18114-68
A MEDIUM FOR LABORATORY REARING OF THE PEACH TREE AND LESSER PEACH TREE BORERS.
W G Russell
J Econ Entomol 61(5):1450-1451
15 Oct 1968 421 J822
Experimental insects, Feeding, Insect pests, Insect rearing, Larvae, Plant injuries, Sanninoidea exitiosa, Synanthedon pictipes.

18115-68
CONTROL OF MUSTARD APHID (LIPAPHIS ERYSIMI KALT.) BY SYSTEMIC INSECTICIDES.
M L Saini K S Chhabra
Plant Protect Bull 18(2):4-8
1966 421 P69
Aphididae, Brassica, Crop yields, Insecticides, Lipaphis erysimi, Plant protection.

18116-68
A NEW MOSAIC DISEASE OF BRINJAL (SOLANUM MELONGENA L.).
M L Seth S P Raychaudhuri R Nath
Phytopathol Z 59(4):385-389 REF
Aug 1967 464.8 P562
Aphis craccivora, Aphis gossypii, Eggplant, Insect vectors, Mosaic (eggplant), Myzus persicae, Virus diseases (plants). German summary

18117-68
INTRODUCING AND ESTABLISHING THE NONINCLUSION VIRUS OF THE CITRUS RED MITE IN CITRUS GROVES.
J G Shaw D L Chambers H Tashiro
J Econ Entomol 61(5):1352-1355
15 Oct 1968 421 J822
Citrus, Epizootic diseases, Experimental insects, Greenhouse culture, Insect diseases, Insect rearing, Panonychus citri, Spraying, Viruses, Zoogeography.

18118-68
ATTACK OF THE BLACK TURPENTINE BEETLE ON ROOTS OF SLASH PINES.
R H Smith R J Kowal
J Econ Entomol 61(5):1430-1432
15 Oct 1968 421 J822
Dendroctonus terebrans, Insect control, Insect pests, Mortality, Pinus elliottii, Research, Roots, Tree injuries.

18119-68
PECULIARITIES OF DEVELOPMENT AND HARMFUL ACTIVITY OF THE HESSIAN FLY (MAYETIOLA DESTRUCTOR SAY.) UNDER CONDITIONS OF IRRIGATION. (RUS)
P I Susidko
Zool Zhur 46(12):1810-1814
Dec 1967 410 R92
Insect pests, Mayetiola destructor, Plant pest control, Wheat.
Abstract

18120-68
ROLE OF HOST PLANT IN PRODUCTION OF WINGED FORMS BY A GREEN STRAIN OF PEA APHID ACYRTHOSIPHON PISUM.
O R W Sutherland
Nature 216(5113):387-388
28 Oct 1967 472 N21
Acyrthosiphon pisum, Aphididae, Breeding, Broadbeans, Experimental insects, Insect rearing, Research, Seedlings, Wings (insects).

18121-68
ANTHOCORIS MELANOCERUS AS A PREDATOR OF THE GREEN PEACH APHID ON SUGAR BEETS AND BROCCOLI.
G Tamaki R E Weeks
Entomol Soc Amer Ann 61(3):579-584
May 1968 420 EN82
Anthocoris melanocerus, Broccoli, Insect control, Laboratories, Mortality, Myzus persicae, Ovipositors, Population statistics, Predaceous insects, Sugar beets.

18122-68
EGG DISTRIBUTION AS A FACTOR IN SUPPRESSING THE GREEN PEACH APHID BY PRUNING.
G Tamaki D M Powell
J Econ Entomol 61(5):1437-1439
15 Oct 1968 421 J822
Insect control, Insect eggs, Insect pests, Myzus persicae, Population, Pruning, Research, Zoogeography.

18123-68
CHEMICAL CONTROL OF THE SUNFLOWER MOTH ON SUNFLOWERS.
G L Teetes N M Randolf
J Econ Entomol 61(5):1344-1347
15 Oct 1968 421 J822
Biochemistry, Chemical control (insects), Chemicals, Homoeosoma electellum, Insecticide application, Insecticides, Larvae, Sunflowers, Tables (data).

18124-68
CONSTITUENTS OF THE COTTON BUD. XIII. FURTHER STUDIES ON A NONPOLAR FEEDING STIMULANT FOR THE BOLL WEEVIL.
C Temple E C Roberts J Frye R F Struck Y F Shealy A C Thompson J P Minyard P A Hedin
J Econ Entomol 61(5):1388-1393 REF
15 Oct 1968 421 J822
Anthonomus grandis, Chromatography, Cotton, Feeding, Lipids, Pheophytins, Plant budding, Plant extracts, Research.

18125-68
RESISTANCE OF SOUTHERN PEAS TO THE COWPEA CURCULIO.
J W Todd T D Canerday
J Econ Entomol 61(5):1327-1329
15 Oct 1968 421 J822
Breeding, Chalcodermus aeneus, Economic plants, Insect pests, Peas, Plant hardiness, Plant injuries.

18126-68
WITH PESTS IN THE LUGGAGE. (SW)
B Tunblad
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(5-6):91
1967 464.9 SW3V
Diaspis echinocacti, Opuntia.

18127-68
MORTALITY STAGING OF DOMINANT LETHALS INDUCED IN THE F1 GENERATION OF SUGARCANE BORER; DIATRAEA SACCHARALIS (F.).
D W Walker V Quintana-Muniz
Radiat Res 36(1):138-143
Oct 1968 334.8 R11
Diatraea saccharalis, Embryology, Irradiation, Mortality, Sugarcane.

18128-68
CONTROL OF THE ELM LEAF BEETLE IN ARIZONA.
G P Wene J N Roney S Stedman
J Econ Entomol 61(5):1180-1182
15 Oct 1968 421 J822
Bidrin, Biochemistry, Chemical control (insects), Dosage, Foliar application, Injections, Insect pests, Insecticides, Oxydemetonmethyl, Pyrrhalta luteola, Tree injuries, Ulmus.

18129-68
THE COLUMBIAN TIMBER BEETLE, CORTHYLUS COLUMBIANUS (COLEOPTERA: SCOLYTIDAE). VIII. ARTIFACTS AND CHARACTERISTICS OF THE HOST TREE.
W B White R L Gicse
J Econ Entomol 61(5):1400-1406 REF
15 Oct 1968 421 J822
Acer rubrum, Acer saccharinum, Corthylus columbianus, Insect behavior, Insect outbreaks, Insect pests, Plant physiology, Population, Research, Statistical analysis.

18130-68
PHYSIOLOGIC RACE CHANGES IN BARLEY MILDEW 1964-67.
M S Wolfe
Plant Pathol 17(2):82-87
Jun 1968 464.8 P692
Erysiphe graminis, Mildew (barley), Physiology, Plant diseases, Research, Sampling (statistics), Surveys.

NEMATODES

18131-68
EFFECT OF TEMPERATURE AND VARIETY ON NEMATODE DEVELOPMENT AND GALL PRODUCTION ON SOYBEANS INFECTED WITH MELOIDOGYNE INCOGNITA ACRITA. (ABSTRACT).
W E Bryant J D Wyllie
Phytopathology 58(8):1045
Aug 1968 464.8 P56
Meloidogyne incognita, Morphology, Nematodes, Plant galls, Soybeans, Temperature.

18132-68
THE INCREASED ATTACK OF DITYLENCHUS DIPSACI ON ONION CAUSED BY SOME FUNGICIDES.
M W Brzeski W Macias
Nematologica 13(2):322
1967 436.8 N342
Ditylenchus dipsaci, Fungicides, Onions, Plant nematodes.

18133-68
ATTEMPTED CULTIVATION OF NEMATODE CELLS. (ABSTRACT).
T Chen H Hirumi K Maramorosch
Phytopathology 58(8):1046-1047
Aug 1968 464.8 P56
Alfalfa, Cells, Nematodes, Plant protection, Pratylenchus penetrans.

18134-68
INTERACTIONS OF APHELENCHUS AVENAE AND SOME NEMATODETRAPPING FUNGI IN DUAL CULTURE.
R C Cooke D Pramer
Phytopathology 58(5):659-661
May 1968 464.8 P56
Aphelenchus avenae, Balance of nature, Competition, Culture media, Fungi, Nematode-trapping fungi, Nematodes.

18135-68
THE BARLEY ROOT-KNOT NEMATODE IN ILLINOIS.
A M Golden D P Taylor
Plant Dis Rep 51(11):974-975
Nov 1967 1.9 P69P
Agrostis palustris, Barley, Poa pratensis, Taxonomy, Zoogeography.

18136-68
THE EFFECT OF ULTRA-VIOLET RADIATION ON THE INVASION, SURVIVAL AND FERTILITY OF LARVAE OF HETERODERA ROSTOCHIENSIS.
C D Green S Plumb
Nematologica 13(2):186-190
1967 436.8 N342
Heterodera rostochiensis, Heterodera schactii, Larvae, Physiology, Potatoes, Ultraviolet rays. English and german abstract
Abstract

18137-68
CHEMICAL CONTROL OF THE STEM NEMATODE DITYLENCHUS DIPSACI.
G D Griffin
Plant Dis Rep 51(11):973-974
Nov 1967 1.9 P69P
Alfalfa, Captan, Ditylenchus dipsaci, Nematocides, Seed treatment, Soil sterilization.

18138-68
QUANTITATIVE CHANGES IN ORGANIC ACIDS IN ROOTS AND LEAVES FROM GRAPEFRUIT SEEDLINGS INFECTED WITH RHADOPHOLUS SIMILIS.
R W Hanks A W Feldman
Phytopathology 58(5):706-707
May 1968 464.8 P56
Carboxylic acids, Citrus, Grapefruit, Leaves, Nematodes, Radopholus similis, Roots, Seedlings.

18139-68
CONTROL OF ENDO- AND ECTO-PARASITIC NEMATODES IN TURF BY HOT-WATER TREATMENTS.

18140-68

C M Heald H D Wells
Plant Dis Rep 51(11):905-907
Nov 1967 1.9 P69P
Criconemoides, Hot water treatment (plants), Hypsoperine, Nematodes, Parasitism, Plant hardiness, Trichodorus, Tylenchorhynchus.

18140-68
THE YIELD OF POTATOES RESISTANT TO HETERODERA ROSTOCHIENSIS ON INFESTED LAND.
F G W Jones D M Parrott T D Williams
Nematologica 13(2):301-310 REF
1967 436.8 N342
Crop yields, Heterodera rostochiensis, Plant disease resistance, Plant nematodes, Potatoes. English and german abstract

Abstract

18141-68
STUDIES OF THE SUITABILITY OF CERTAIN HELIOTHIS SPP. AS A HOST FOR CARDIOCHILES NIGRICEPS VIERICK.
W J Lewis
Diss Abstr Sect B 29(2):646B
Aug 1968 Z5055.U49D53
Cardiochiles nigriceps, Heliothis, Parasitism, Research.

18142-68
ELECTRON MICROSCOPE STUDIES OF SOME CEPHALIC STRUCTURES OF XIPHINEMA AMERICANUM.
D Lopez-Abella F Jimenez-Millan F Garcia-Hidalgo
Nematologica 13(2):283-286 REF
1967 436.8 N342
Anatomy, Electron microscopes, Head, Morphology, Plant nematodes, Xiphenema americanum. English and german abstract

Abstract

18143-68
INJURY TO HETERODERA TABACUM BY HIGH SOIL TEMPERATURES. (ABSTRACT).
P M Miller
Phytapathalagy 58(8):1060
Aug 1968 464.8 P56
Eggplant, Heterodera tabacum, Nematodes, Plant injuries, Soil temperature, Tomatoes.

18144-68
THE INFLUENCE OF AN ORGANIC SOIL AMENDMENT ON INFECTIVITY AND REPRODUCTION OF TYLENCHULUS SEMIPENETRANS ON TWO CITRUS ROOTSTOCKS.
J H O'Bannon
Phytapathalagy 58(5):597-601 REF
May 1968 464.8 P56
Citrus, Lemons, Nematodes, Oranges, Parasitism, Peat, Roots, Seedlings, Soils, Tylenchulus semipenetrans.

18145-68
THE HOST-PARASITE RELATIONS AND ECOLOGY OF TRICHODORUS VIRULIFERUS ON APPLE ROOTS, AS OBSERVED FROM AN UNDERGROUND LABORATORY.
R S Pitcher
Nematalogica 13(4):547-557 REF
1967 436.8 N342
Apples, Ecology, Plant injuries, Plant nematodes, Roots, Trichodorus viruliferus. English and german abstract

Abstract

18146-68
THE EFFECT OF AMINO ACID ANTIMETABOLITES ON FOUR NEMATODE SPECIES AND THEIR HOST PLANTS.
S K Prasad J M Webster
Nematalogica 13(2):318-320
1967 436.8 N342
Amino acids, Antimetabolites, Physiology, Plant nematodes, Soil microorganisms, Tomatoes.

18147-68
EFFECT OF VARIETY AND FUMIGATION ON NEMATODE POPULATIONS IN OATS, WHEAT, AND RYE.
D T Sechler W B Tappan H H Luke
Plant Dis Rep 51(11):915-919 REF
Nov 1967 1.9 P69P
Nematocides, Nematodes, Oats, Plant pest control, Rye, Soil fumigation, Wheat.

18148-68
THE RELATIONSHIPS BETWEEN POPULATION INCREASE AND POPULATION DENSITY IN PLANT PARASITIC NEMATODES.
J W Seinhorst
Nematologica 13(4):481-492 REF
1967 436.8 N342
Ecology, Plant injuries, Plant nematodes, Population. English and german abstract

Abstract

18149-68
THREAD WORMS IN THE RHIZOSPHERE OF THE NORMAL COTTON AND OF THAT INFECTED WITH THE VERTICILLOUS COTTON WILT. (RUS)
I M Sudakova A V Stoyakov R V Mikulina
Zool Zhur 46(12):1758-1763
Dec 1967 410 R92
Cotton, Nematodes, Plant diseases, Plant ecology, Rhizosphere, Verticillium dahliae, Wilt (cotton).

Thread worms in the rhizosphere of non-wilt infected cotton are predominately of only two ecological groups, phytohelmiths and devysaprobiont.

18150-68
PARASITISM OF TYLENCHUS EMARGINATUS ON CONIFER SEEDLING ROOTS AND SOME OBSERVATIONS ON THE BIOLOGY OF THE NEMATODE.
J R Sutherland
Nematologica 13(2):191-196
1967 436.8 N342
Coniferae, Plant nematodes, Roots, Seedlings, Tylenchus emarginatus. English and french abstract

Abstract

18151-68
EVALUATION OF SOME TAXONOMIC INDICES IN THE POTATO ROT NEMATODE DITYLENCHUS DESTRUCTOR THORNE, 1945. (RUS)
T N Teploukhova
Zool Zhur 47(1):42-48 REF
Jan 1968 410 R92
Ditylenchus destructor, Ditylenchus dipsaci, Plant nematodes, Statistical analysis, Taxonomy. English abstract

Abstract

18152-68
GAMMA IRRADIATION OF HETERODERA SCHACHTII.
J L Townshend
Nematologica 13(4):586-592 REF
1967 436.8 N342
Gamma rays, Heterodera schachtii, Physiology, Plant nematodes, Soil microorganisms. English and german abstract

Abstract

18153-68
PLANT-PARASITIC NEMATODES IN GRAPE AND RASPBERRY SOILS OF ONTARIO AND A COMPARISON OF EXTRACTION TECHNIQUES.
T L Townshend
Can Plant Dis Surv 47(3):83-86 REF
Sep 1967 464.9 C16S
Grapes, Parasitism, Plant nematodes, Pratylenchus penetrans, Raspberries, Soil microorganisms, Xiphinema americanum.

Abstract: Of 8 species, only P. penetrans was harmful to raspberries.

18154-68
THE EFFECT OF ENVIRONMENT ON SEX DETERMINATION IN HETERODERA ROSTOCHIENSIS.
D L Trudgill
Nematologica 13(2):263-272
1967 436.8 N342
Heterodera rostochiensis, Larvae, Physiology, Plant nematodes, Potatoes, Sex determination. English and german abstract

Abstract

18155-68
THE INFLUENCE OF PLANT-GROWTH SUBSTANCES AND THEIR INHIBITORS ON THE HOST-PARASITE RELATIONSHIPS OF APHELENCHOIDES RITZEMABOSI IN CULTURE.
J M Webster
Nematalogica 13(2):256-262 REF
1967 436.8 N342
Alfalfa, Aphelenchoides ritzema-bosi, Biochemistry, Plant growth inhibitors, Plant nematodes, Plant physiology. English and german abstract

Abstract

18156-68
FACTORS INFLUENCING THE POPULATION FLUCTUATION OF PRATYLENCHUS PENETRANS IN SOIL. III. HOST PLANT SPECIES.
K Wong J M Ferris
Phytapathalagy 58(5):662-665 REF
May 1968 464.8 P56
Nematodes, Onions, Population statistics, Potatoes, Pratylenchus penetrans, Roots, Soils.

WEEDS

18157-68
PREPLANTING TREATMENTS FOR WEED CONTROL IN CONNECTICUT SHADEGROWN TOBACCO.
J F Ahrens
Northeast Weed Contr Conf Proc 22:41
Jan 1968 79.9 N814
Benefin, Crop yields, Plant injuries, Spraying, Tobacco, Transplanting, Trifluralin, Weed control.

18158-68
EVALUATION OF WEED CONTROL TREATMENTS IN FIELD-GROWN TOBACCO.
W E Chappell
Northeast Weed Cantr Conf Proc 22:41
Jan 1968 79.9 N814
Chemical control (weeds), Herbicides, Plant injuries, Soils, Spraying equipment, Tobacco, Weed control, Weeds.

18159-68
WEEDS IN AGRONOMIC CROPS. FIELD CORN, SOYBEANS.
R H Cole
Northeast Weed Cantr Conf Proc 22:28-36
Jan 1968 79.9 N814
Chemical control (weeds), Corn, Crop yields, Fertilization (plants), Field crops, Herbicides, Plant injuries, Soybeans, Weeds.

18160-68
THE GROWTH, DEVELOPMENT AND CONTROL OF COMMON RAGWEED.
C T Dickerson R D Sweet
Northeast Weed Contr Conf Proc 22:48
Jan 1968 79.9 N814
Ambrosia artemisifolia, Greenhouses, Growth factors, Photoperiodism, Research, Temperature, Weed control.

18161-68
LIGHT QUALITY EFFECTS ON GROWTH AND DEVELOPMENT RAGWEED.

S Dunn F S Adams A S Thomas E L Stevenson
Northeast Weed Contr Conf Proc 22:47
Jan 1968 79.9 N814
Ambrosia artemisifolia, Growth factors, Light, Research, Seedlings.

18162-68
GROWTH, DEVELOPMENT AND CONTROL OF WILD RADISH.
R L Feulner E M Rahn
Northeast Weed Contr Conf Proc 22:48
Jan 1968 79.9 N814
Growth factors, Herbicides, Photoperiodism, Raphanus raphanistrum, Temperature, Weed control.

18163-68
ON THE DISPERSAL OF THE BULBS OF OXALIS CERNUA THUNB. BY MOLE-RATS (SPALAX EHRENBERGI NEHRING).
J Galil
J Ecol 4(2):787-792
Nov 1967 450 J829
Bulbs, Oxalis cernua, Plant dissemination, Rodents, Spalax ehrenbergi, Weeds.

Abstract: Bulbs are dispersed by mole-rats, whose neglected caches later sprout. However caches in nest chambers are usually tended by the female mole-rats, which repeatedly bite off the young shoots, thus hindering development of the bulbs.

18164-68
ORNAMENTALS.
C Haramaki
Northeast Weed Contr Conf Proc 22:22-27
Jan 1968 79.9 N814
Chemical control (weeds), Herbicides, Nurseries, Ornamental plants, Plant injuries, Plant physiology, Soils, Transplanting, Weeds.

18165-68
FENCEROW WEED CONTROL MADE EASY.
E L Knake
Down Earth 23(4):2,32 SPRING
1968 381 D75
Biochemistry, Chemical control (weeds), Crops, D, 2,4-, Herbicides, Soils, Spraying, Weed control.

18166-68
EXTERMINATION OF EICHHORNIA AZUREA KUNTH, AGUAPE DE CORDAO , ON THE RIBEIRA RIVER BY MEANS OF HERBICIDE APPLICATIONS. (POR)
L Leiderman P Figueiredo
Biologico 33(6):121-125
Jun 1967 442.8 B529
Amitrole, D, 2,4-, Eichhornia, Herbicides, Paraquat, Weed control.

18167-68
FORAGE CROPS, SMALL GRAINS.
D L Linscott
Northeast Weed Contr Conf Proc 22(0):37-40
Jan 1968 79.9 N814
Crops, Herbicides, Legumes, Seedlings, Spraying, Weed control.

18168-68
VEGETABLE CROPS III. CUCUMBERS, WATERMELONS, CANTALOUPES, SQUASH.
E M Rahn
Northeast Weed Contr Conf Proc 22:9-11
Jan 1968 79.9 N814
Cantaloupes, Chemicals, Cucumbers, Greenhouses, Squash, Vegetables, Watermelons, Weed control, Weeds.

18169-68
CHEMICAL CONTROL OF NUTSEDGE (CYPERUS ROTUNDUS L.) AND THE METABOLISM OF 3,6-DICHLORO-O-ANISIC ACID (DICAMBA).
B R Ray
Diss Abstr Sect B 29(1):20B
Jul 1968 Z5055.U49D53
Biochemistry, Chemical control (weeds), Chemicals, Chromatography, Cyperus rotundus, Dicamba, Herbicides, Metabolites, Plant metabolism.

18170-68
AQUATIC WEEDS.
D N Riemer
Northeast Weed Contr Conf Proc 22:44-45
Jan 1968 79.9 N814
Aquatic weeds, Herbicides, Research, Weed control.

18171-68
TOBACCO.
O E Rud
Northeast Weed Contr Conf Proc 22:41
Jan 1968 79.9 N814
Field crops, Tobacco, Weed control, Weeds.

18172-68
FORESTRY.
R D Shipman
Northeast Weed Contr Conf Proc 22:42
Jan 1968 79.9 N814
Abies balsamea, Forestry, Herbicides, Weed control.

18173-68
VEGETABLE CROPS. IV. BEANS, SWEET CORN, TOMATOES, RHUBARB.
R D Sweet
Northeast Weed Contr Conf Proc 22:12-15
Jan 1968 79.9 N814
Beans, Chemical control (weeds), Corn, Herbicides, Rhubarb, Tomatoes, Weed control.

18174-68
HERBACEOUS ANNUAL AND PERENNIAL WEEDS.
J Vengris
Northeast Weed Contr Conf Proc 22:48
Jan 1968 79.9 N814
Ambrosia artemisifolia, Growth factors, Herbicides, Perennial plants, Portulaca oleracea, Raphanus raphanistrum, Weeds.

OTHER PESTS

18175-68
ALBERTA, 255,000 SQUARE MILES, FREE OF RATS.
Anonymous
Pest Contr 36(8):16
Aug 1968 449.8 EX8
Baits, Feed, Pest control, Public health, Rats, Waste disposal.

18176-68
FUMIGATION-AN EFFECTIVE METHOD OF RAT CONTROL IN KUTTANAD IN ALLEPPEY DISTRICT (KERALA).
S A Ebrahim
Plant Protect Bull 18(1):31-32
1966 421 P69
Fumigation, Pest control, Rats, Rice.

18177-68
ORGANISATION OF ANTI-RAT CAMPAIGNS.
S Singh
Plant Protect Bull 18(4):1-13
1968 421 P69
Crop yields, Dusting cquipment, Environment, Organizations, Pest control, Population statistics, Rats, Research, Rodenticides.

18178-68
HYPERGLYCEAMIA INDUCED BY 5-HYDROXYTRYPTAMIN IN ACHATINA FULICA (GASTROPOD MOLLUSCA). (FR)
Y Tiffon
Paris Soc Biol Compt Rend 161(7):1547-1548
31 Jan 1968 442.9 P21
Achatina fulica, Amines, Biochemistry, Hyperglycemia, Physiology, Snails.

LIVESTOCK PROTECTION

18179-68
EFFECTS OF HIGH GOSSYPOL COTTONSEED MEAL ON THE ELECTROCARDIOGRAM OF SWINE.
J E Albrecht A J Clawson L C Ulberg D H Smith
J Anim Sci 27(4):976-980 REF
Jul 1968 49 J82
Cottonsced meal, Electrocardiograms, Feeding, Gossypol, Swine.

18180-68
DISTRIBUTION OF MERCURY COMPOUNDS IN FISH AND BIRDS.
J Backstrom
Oikos (SUP.9):30
1967 410 O14
Absorption (biological), Agriculture, Antiseptics, Autoradiography, Birds, Feeding, Fish, Industry, Injections, Mercury compounds, Research.

18181-68
CORRECTION: HEMOPHILIA-LIKE DISEASE OF SWINE: CYTOGENETIC STUDIES.
R C Brown K W Cole C N Cornell K M Brinkhous
Amer J Vet Res 29(9):1732
Sep 1968 41.8 AM3A
Cytogenetics, Hemophilia, Swine.

18182-68
EFFECTS OF UREASE INHIBITORS ON SHEEP FED DIETS CONTAINING UREA.
A J Clifford J R Bourdette A D Tillman
J Anim Sci 27(4):1073-1080 REF
Jul 1968 49 J82
Chemurgy, Feeding, Research, Sheep, Urea, Urease.

18183-68
INFLUENCE OF NITRITE AND HYDROXYLAMINE ON PERFORMANCE AND VITAMIN A AND CAROTENE METABOLISM OF RUMINANTS.
G N Cunningham M B Wise E R Barrick
J Anim Sci 27(4):1067-1072 REF
Jul 1968 49 J82
Animal metabolism, Hydroxylamine, Methemoglobin, Nitrites, Rumen, Ruminants, Vitamin a.

18184-68
MYCOTIC ABORTION IN EWES PRODUCED BY ASPERGILLUS FUMIGATUS: PATHOLOGIC CHANGES.
S J Cysewski A C Pier
Amer J Vet Res 29(6):1135-1151 REF
Jun 1968 41.8 AM3A
Abortion, Animal diseases, Animal morphology, Aspergillus fumigatus, Histopathology, Injections, Mycology, Sheep, Tissues.

18185-68
INFLUENCE OF DIETARY VITAMIN A ON CHOLESTEROL METABOLISM OF CHICKENS.
P M Dua
Diss Abstr Sect B 28(8):3117B
Feb 1968 Z5055.U49D53
Animal metabolism, Blood scrum, Carotenoids, Chickens, Cholesterol, Diet, Eggs, Liver, Retinoic acid, Thiouracil, Vitamin a.

18186-68
OLIGOSACCHARIDASES FROM MACRACANTHORHYNCHUS HIRUDINACEUS (ACANTHOCEPHALA) FROM SWINE.
T T Dunagan T M Yau
Compar Biochem Physiol 26(1):281
Jul 1968 444.8 C73
Chemicals, Extracts, Macracanthorhynchus hirudinaceus, Oligosaccharides, Research, Swine.

18187-68
TREATMENT FOR POISONING BY SLUG BAIT.

J D Hawkins
Vet Rec 83(10):258
07 Sep 1968 41.8 V641
Baits, Dogs, Mortality, Poisoning, Research, Slugs, Toxicology.

18188-68
OXALATE METABOLISM IN SHEEP AND ITS EFFECT ON THE ANION-CATION BALANCE.
L F James
Diss Abstr Sect B 28(8):3118B
Feb 1968 Z5055.U49D53
Alkalosis, Animal metabolism, Carbonates, Hydrogen-ion concentration, Ions, Nitrogen, Oxalates, Rumen.

18189-68
LEVELS OF 5 BETA-PREGNAN-3 ALPHA, 6 ALPHA-DIOL-20-ONE IN URINE AND ITS RELATIONSHIP TO OTHER METABOLITES OF PROGESTRONE IN URINE OF THE NON-PREGNANT DOMESTIC SOW.
P H Jones R E Erb
J Anim Sci 27(4):1054-1058 REF
Jul 1968 49 J82
Blood plasma, Chromatography, Extracts, Glucuronidase, Metabolites, Progesterone, Swine, Urine.

18190-68
COMPARISON OF METABOLITES OF PROGESTERONE-4-14C IN URINE FROM A NONPREGNANT DOMESTIC SOW.
P H Jones R E Erb
J Anim Sci 27(4):1049-1053 REF
Jul 1968 49 J82
Chromatography, Extracts, Glucuronidase, Hydrolysis, Metabolites, Progesterone Radioactivity, Swine.

18191-68
EFFECT OF AFLATOXIN ON SERUM PROTEIN FRACTIONS OF DAY-OLD DUCKLINGS.
I Nemeth S Juhasz
Acta Vet (budapest) 18(1):95-105
1968 41.8 AC83
Aflatoxin, Blood proteins, Ducklings, Electrophoresis, Gamma globulins, Immunology.

18192-68
RESPONSE OF BEEF COWS TO EXOGENOUS PROGESTERONE AND ESTRADIOL AT VARIOUS STAGES POSTPARTUM.
S Saiduddin M M Quevedo W D Foote
J Anim Sci 27(4):1015-1020
Jul 1968 49 J82
Cattle, Estradiol, Injections, Ovulation, Progesterone, Research.

18193-68
EFFECT OF ORGANO-PHOSPHORUS INSECTICIDES ON THE WARM BLOODED ANIMALS AND CURE THEREOF.
H Singh
Plant Protect Bull 18(4):27-35 REF
1966 421 P69
Biology, Diagnosis, Insecticides, Lethal factors, Mammals, Metabolism, Phosphorus, Research, Toxicology.

18194-68
THE EFFECT OF INTRAMAMMARY INFECTION DURING THE DRY PERIOD ON THE MILK PRODUCTION OF THE AFFECTED QUARTER AT THE START OF THE SUCCEEDING LACTATION.
A Smith F H Dodd F K Neave
J Dairy Res 35(2):287-290 REF
Jun 1968 44.8 J823
Animal physiology, Dairy cattle, Lactation, Mammary glands, Milk, Parturition.

18195-68
AVIRULENT MUTANT OF A STRAIN OF ORNITHOSIS AGENT OBTAINED BY GAMMA IRRADIATION.
J Strauss J Seeman
Amer J Vet Res 29(9):1837-1842 REF
Sep 1968 41.8 AM3A
Culture media, Gamma rays, Immunization, Injections, Irradiation, Lethal factors, Lyophilization, Mice, Ornithosis, Research.

18196-68
THE EFFECT OF EXPOSURE TO DIELDRIN ON AVOIDANCE RESPONSE EXTINCTION AND CONDITIONED HEART RATE IN SHEEP.
D E Sussman
Diss Abstr Sect B 28(11):4786B
May 1968 Z5055.U49D53
Biochemistry, Chlorine, Dieldrin, Heart, Heart rate, Hydrocarbons, Pesticides, Sheep.

18197-68
DETERMINATION OF CESIUM-137 AND RELATED SAMPLING PROBLEMS OF DAIRY CATTLE FEEDS, 1962-1967.
G M Ward J E Johnson D L Whelan
Ass Offic Anal Chem J 51(4):792-795 REF
Jul 1968 381 AS7
Cesium, Crops, Dairy cattle, Feed, Pastures, Radioactivity, Sampling (statistics), Spectrometry.

18198-68
MERCURY CONTENT IN FEATHERS OF SWEDISH BIRDS FROM THE PAST 100 YEARS.
T Westermark
Oikos (SUP.9):39-40
1967 410 O14
Absorption, Assay, Biochemistry, Birds, Feathers, Mercury compounds, Time, Viscera.

18199-68
METHYL MERCURY COMPOUNDS IN FISH.
G Westoo
Oikos (SUP.9):11-12
1967 410 O14
Chromatography, Fish, Immunity, Mercury compounds, Methyl, Organic compounds.

DISEASES

18200-68
CYSTIC OVARIAN DISEASE IN DAIRY CATTLE: WITH SPECIAL REFERENCE TO ITS TREATMENT USING A COMBINATION OF CHORIONIC GONADOTROPHIN AND PROGESTERONE.
Vet Rec 83(10):231-238
07 Sep 1968 41.8 V641
Animal diseases, Dairy cattle, Injections, Ovarian cysts, Progesterone.

18201-68
FURTHER STUDIES ON THE USE OF ERA RABIES VACCINE IN DOMESTIC ANIMALS.
M K Abelseth
Can Vet J 8(10):221-227
Oct 1967 41.8 R3224
Immunization, Livestock, Rabies virus, Research, Virus diseases (animals). French summary

18202-68
EXPERIMENTAL TREATMENT OF SUBCLINICAL PORCINE CASE OF TOXOPLASMA WITH SULFAMONOMETHOXINE AND PYRIMETHAMINE AND ITS INFLUENCE UPON HEMAGGLUTINATING ANTIBODY. (JA)
M Akita
Jap Vet Med Ass J 20(9):386-389
1967 41.9 J275
Animal diseases, Antibodies, Drugs, Pyrimethamine, Sulfameter, Swine, Therapeutics, Toxoplasmosis.

18203-68
BACTERIOLOGICAL STUDIES OF POULTRY LITTER FED TO LIVESTOCK.
D C Alexander J A J Carriere K A McKay
Can Vet J 9(6):127-131 REF
Jun 1968 41.8 R3224
Bacteria, Bedding (livestock), Feeding, Livestock diseases, Poultry, Research. French summary

18204-68
A SURVEY TO DETERMINE THE SALMONELLA CONTAMINATION RATE IN LIVESTOCK AND POULTRY FEEDS.
J N Allred J W Walker V C Beal F W Germaine
Amer Vet Med Ass J 151(12):1857-1860 REF
15 Dec 1967 41.8 AM3
Food contamination, Livestock, Salmonella, Salmonellosis.

Abstract

18205-68
DOES THE AGENT OF SCRAPIE REPLICATE WITHOUT NUCLEIC ACID.
T Alper W A Cramp D A Haig M C Clarke
Nature 214(5090):764-766 REF
20 May 1967 472 N21
Animal diseases, Irradiation, Mice, Nervous system, Nucleic acids, Proteins, Reproduction, Scrapie, Ultraviolet rays.

18206-68
EXPERIMENTAL COLIBACILLOSIS AND THE DEVELOPMENT OF CARRIES IN LAYING HENS.
W B Ardrey C F Peterson M Haggart
Avian Dis 12(3):505
Aug 1968 41.8 AV5
Animal diseases, Chickens, Escherichia coli, Injections, Oviducts, Research, Tissues.

18207-68
MICROFLORA ASSOCIATED WITH AGALACTIA SYNDROME OF SOWS.
C H Armstrong B E Hooper C E Martin
Amer J Vet Res 29(7):1401-1407 REF
Jul 1968 41.8 AM3A
Agalactia, Animal diseases, Flora, Microbiology, Microorganisms, Research, Swine.

18208-68
SEMINAL VESICULITIS SYNDROME: LESIONS IN GENITAL ORGANS OF YOUNG BULLS.
L Ball S Young E J Carroll
Amer J Vet Res 29(6):1173-1184 REF
Jun 1968 41.8 AM3A
Abnormalities, Cells, Correlation, Epididymis, Epithelial tumors, Inflammation, Reproductive organs, Seminal vesicles.

18209-68
SALMONELLA TYPHISUIS INFECTION IN MINNESOTA SWINE.
D M Barnes M E Bergeland
Amer Vet Med Ass J 152(12):1766-1770 REF
15 Jun 1968 41.8 AM3
Autopsies, Epizootic diseases, Salmonella, Swine.

Abstract: Epizootics of Salmonella typhisuis infection in swine were investigated on 5 Minnesota premises. It seemed to be a primary pathogen and produced a progressive disease characterized clinically by emaciation, intermittent diarrhea, and on occasion by massive enlargement of the ventral cervical region.

18210-68
ANAPLASMA MARGINALE-INFECTIVITY IN SPLENECTOMIZED AND RADIATED RABBITS.
L B Belli
Diss Abstr Sect B 29(2):696B-697B
Aug 1968 Z5055.U49D53
Anaplasmosis, Animal diseases, Irradiation, Rabbits, Spleen.

18211-68
MYCOPLASMA MELEAGRIDIS ('N' STRAIN MYCOPLASMA - PPLO): RELATIONSHIP OF AIR SAC LESIONS AND ISOLATIONS IN DAY OLD TURKEYS (MELEAGRIDIS GALLOPAVO).
C H Bigland M L Benson
Can Vet J 9(6):138-141 REF
Jun 1968 41.8 R3224
Air sacs, Animal breeding, Infectious diseases, Livestock diseases, Mycoplasma meleagridis, Turkeys. French summary

18212-68
NEMATODIASIS IN LOUISIANA DAIRY CATTLE. IMPACT OF HOST NUTRITION UPON EXPERIMENTAL OSTERTAGIASIS IN THE BOVINE.
F R Bilkovich
Diss Abstr Sect B 28(8):3119B
Feb 1968 Z5055.U49D53
Animal nutrition, Cattle, Cooperia, Haemonchus, Livestock diseases, Nematodiasis, Ostertagia, Ostertagiasis, Trichostrongylus.

18213-68
ATYPICAL GLOBIDIOSIS IN A LAMB.
C E Binninger T C McGuire
Amer Vet Med Ass J 151(5):606-608 REF
01 Sep 1967 41.8 AM3
Autopsies, Globidiosis, Globidium gilruthi, Lambs.
Abstract: In a lamb with fibrinous enteritis and lymphadenitis that died suddenly, enteritis was caused by a protozoan, Globidium gilruthi, which had invaded the mesenteric lymph nodes.

18214-68
ECOLOGIC ASPECTS OF LISTERIOSIS.
D C Blenden F T Szatalowicz
Amer Vet Med Ass J 151(12):1761-1766 REF
15 Dec 1967 41.8 AM3
Diagnosis, Epizootic diseases, Listeria grayi, Listeria monocytogenes, Listeriosis.
Abstract

18215-68
PROPERTIES OF AUJESZKY'S DISEASE VIRUS STRAINS ISOLATED FROM SWINE PNEUMONIA CASES.
L Bodon J Meszaros G Papp-Vid J Romuary
Acta Vet (budapest) 18(1):107-109
1968 41.8 AC83
Animal diseases, Pneumonia, Pseudorabies, Research, Swine, Tissue culture, Vaccines.

18216-68
ECOLOGY OF CLOSTRIDIUM BOTULINUM TYPE E.
T L Bott
Diss Abstr Sect B 29(2):464B
Aug 1968 Z5055.U49D53
Clostridium botulinum, Ecology, Fish, Water.

18217-68
BLUETONGUE OF SHEEP AND CATTLE: PAST, PRESENT, AND FUTURE.
J G Bowne A J Luedke M M Joehim
Amer Vet Med Ass J 151(12):1801-1803 REF
15 Dec 1967 41.8 AM3
Bluetongue, Cattle, Culicoides, Epizootic diseases, Insect vectors, Sheep.

18218-68
FACTORS AFFECTING THE STORAGE, EXCRETION, AND PLACENTAL TRANSFER OF DIELDRIN IN DAIRY CATTLE.
D G Braund
Diss Abstr Sect B 29(2):423B-424B
Aug 1968 Z5055.U49D53
Animal physiology, Biochemistry, Dairy cattle, Dieldrin, Placenta, Storage.

18219-68
SOME PHYSIOLOGICAL RESPONSES OF RUMINANTS TO 2,2-DICHLOROVINYL DIMETHYL PHOSPHATE.
E J Bris
Diss Abstr Sect B 29(2):421B
Aug 1968 Z5055.U49D53
Animal physiology, Biochemistry, Dichlorvos, Dosage, Ruminants, Sheep.

18220-68
RELATIONSHIPS BETWEEN ZINC NUTRITION AND ALKALINE PHOSPHATASE ACTIVITY IN THE CHICK.
W M Britton
Diss Abstr Sect B 29(1):256B
Jul 1968 Z5055.U49D53
Alkaline phosphatase, Animal nutrition, Cadmium, Chicks, Deficiency diseases, Diet, Enzymes, Metabolism, Zinc.

18221-68
MYCETOMA IN A DOG.
R S Brodey H F Schryver M J Deubler W Kaplan L Asello
Amer Vet Med Ass J 151(4):442-451 REF
15 Aug 1967 41.8 AM3
Curvularia geniculata, Dogs, Mycetoma, Mycosis.
Abstract: Eumycotic (maduromycotic) mycetoma caused by Curvularia geniculata occurred in dog which had intermittent lameness and a progressively enlarging swelling in the right shoulder. Radiographically, there was considerable destruction of the scapula, along with deposition of new bone. Within the affected tissue, the organism appeared in the form of dark brown or black granules. At least 12 cases in lower animals have been reported. Those in man differ in geographic distribution, specific etiologic agent, and character of granules

18222-68
ONE-YEAR IMMUNITY IN DOGS VACCINATED WITH HIGH EGG-PASSAGE RABIES VIRUS GROWN ON ESTABLISHED DOG KIDNEY CELL LINE.
A L Brown D L Merry W H Beckenhauer
Amer Vet Med Ass J 153(2):174-179 REF
15 Jul 1968 41.8 AM3
Dogs, Immunity, Rabies virus, Vaccines.
Abstract

18223-68
HEMOPHILIA-LIKE DISEASE OF SWINE: CYTOGENETIC STUDIES.
R C Brown K W Cole C N Cornell K M Brinkhouse
Amer J Vet Res 29(7):1491-1493 REF
Jul 1968 41.8 AM3A
Animal diseases, Animal genetics, Bone marrow, Cytology, Hemophilia, Leukocytes, Swine.

18224-68
AVIAN ADENO-LIKE VIRUSES- CHARACTERIZATION AND COMPARISON OF SEVEN ISOLATES.
C N Burke R E Luginbuhl L F Williams
Avian Dis 12(3):483-505 REF
Aug 1968 41.8 AV5
Animal diseases, Biology, Chicken embryo lethal orphan virus, Cytology, Enteric cytopathogenic porcine orphan virus, Hemagglutination, Serological tests, Virus diseases (animals).

18225-68
CORYNEBACTERIUM EQUI INFECTION IN TWO FOALS.
G E Burrows
Amer Vet Med Ass J 152(8):1119-1124 REF
15 Apr 1968 41.8 AM3
Abscesses, Arthritis, Corynebacterium equi, Culture media, Enteritis, Feces, Foals, Livestock diseases, Pneumonia, Respiration.

18226-68
ACTIONS OF VITAMIN D3 AND SEX HORMONES ON CALCIUM METABOLISM OF BONE IN BIRDS, PARTICULARLY IN HENS.
S I Chang
Diss Abstr Sect B 29(2):667B-668B
Aug 1968 Z5055.U49D53
Animal physiology, Birds, Bones, Calcium, Chickens, Hormones, Metabolism, Sex, Vitamin d3.

18227-68
SOME NUTRITIONAL ASPECTS OF DIETARY MAGNESIUM IN RUMINANTS AND POULTRY.
C F Chicco
Diss Abstr Sect B 29(1):1B
Jul 1968 Z5055.U49D53
Animal nutrition, Diet, Feed, Magnesium, Measurement, Poultry, Research, Ruminants, Sheep.

18228-68
SOME CHARACTERISTICS OF THREE PORCINE ADENOVIRUSES.
M C Clarke H B A Sharpe J B Derbyshire
Arch Gesamte Virusforsch 21(1):91-97 REF
Jul 1967 448.3 AR23
Adenoviruses, Antibodies, Serodiagnosis, Serological tests, Swine, Taxonomy.
Abstract

18229-68
CLINICAL ASPECTS OF TOXIC INFECTIONS BY ANAEROBIC GERM SPORES IN RUMINANTS. (FR)
P H Cottereau
Soc Vet Prat France Bull Mens 52(4):205-224 REF
Apr 1968 41.9 SO12
Anaerobic bacteria, Animal diseases, Gastrointestinal system, Laboratories, Research, Ruminants, Spores.

18230-68
EFFECTS OF ATTENUATED HOG CHOLERA VIRUS IN PREGNANT SWINE AT VARIOUS STAGES OF GESTATION.
W O Cowart L G Morehouse
Amer Vet Med Ass J 151(12):1788-1794 REF
15 Dec 1967 41.8 AM3
Hog cholera virus, Pregnancy, Swine, Virus diseases (animals).
Abstract

18231-68
HOG CHOLERA: REPLICATION OF HOG CHOLERA VIRUS IN TISSUE CULTURE WITH CYTOPATHIC EFFECT.
J G Crawford T R Dayhuff M J Gallian
Amer J Vet Res (9):1733-1739 REF
Sep 1968 41.8 AM3A
Arginine, Buffer substances, Hog cholera virus, Research, Tissue culture.

18232-68
HOG CHOLERA: SAFETY AND PROTECTION STUDIES WITH PHOTODYNAMICALLY INACTIVATED HOG CHOLERA VIRUS.
J G Crawford T R Dayhuff E A White
Amer J Vet Res 29(9):1749-1759 REF
Sep 1968 41.8 AM3A
Antibodies, Hog cholera virus, Immunization, Injections, Light, Research, Virus diseases (animals).

18233-68
CHARACTERIZATION STUDIES ON FELINE PANLEUCOPENIA VIRUS. (WITH). II. PATHOGENESIS IN THE HOST.
D L Croghan
Diss Abstr Sect B 29(1):287B-288B
Jul 1968 Z5055.U49D53
Cats, Cells, Culture media, Feline infectious enteritis, Kidneys, Morphology, Mortality, Research, Temperature, Tissues, Virus diseases (animals).

18234-68
GROWTH AND DEVELOPMENT OF THE BOVINE AS RELATED TO CERTAIN ENDOCRINE FACTORS.
S E Curl M A Fennell D W Zinn R C Albin
J Anim Sci 27(4):1011-1014 REF
Jul 1968 49 J82
Animal anatomy, Animal diseases, Blood analysis, Calves, Correlation, Endocrine glands, Feedlots.

18235-68
ISOLATION AND CHARACTERIZATION OF THREE PLAQUE-TYPE CLONES OF THE HICKMAN STRAIN OF NEWCASTLE DISEASE VIRUS.
M D Daniel R P Hanson
Avian Dis 12(3):434-440
Aug 1968 41.8 AV5
Culture media, Erythrocytes, Newcastle disease virus, Population statistics, Research, Virus diseases (animals).

18236-68
ELECTRON MICROSCOPIC STUDIES ON THE DEVELOPMENT OF VESICULAR STOMATITIS VIRUS.
I S David-West N A Labzoffsky
Arch Gesamte Virusforsch 23(1-2):105-125 REF
Feb 1968 448 3 AR23
Electron microscopy, Morphology, Physiology, Rabies virus, Tissue culture, Vesicular stomatitis virus.
Abstract

18237-68
HISTOPATHOLOGIC CHANGES IN MALE SWINE WITH EXPERIMENTAL BRUCELLOSIS.
B L Deyoe
Amer J Vet Res 29(6):1215-1220 REF
Jun 1968 41.8 AM3A
Animal anatomy, Animal diseases, Animal histology, Brucella suis, Brucellosis, Granuloma, Lymph nodes, Swine.

18238-68
IMMUNOCHEMICAL AND BIOCHEMICAL INTERRELATIONSHIP OF STREPTOCOCCUS AGALACTIAE TO THE BOVINE.
K Dodd
Diss Abstr Sect B 29(2):697B
Aug 1968 Z5055.U49D53
Animal diseases, Biochemistry, Cattle, Chemistry, Immunity, Streptococcus agalactiae.

18239-68
ESTABLISHMENT OF THE PATHOLOGICAL RELATIONSHIP BETWEEN PLANT AND ANIMAL ISOLATES OF GEOTRICHUM CANDIDUM, IN EMBRYONATED CHICKEN EGGS.
Z M El-Tobshy
Diss Abstr Sect B 29(2):496B
Aug 1968 Z5055.U49D53
Chickens, Eggs, Embryology, Fungus diseases (animals), Fungus diseases (plants), Geotrichum candidum.

18240-68
BEHAVIOR OF EQUINE INFECTIOUS ANEMIA VIRUS IN CELL CULTURE AND DEVELOPMENT OF A DIAGNOSTIC TEST FOR THE DISEASE.
A El-Zein
Diss Abstr Sect B 29(2):697B-698B
Aug 1968 Z5055.U49D53
Culture media, Diagnosis, Equine infectious anemia, Horses, Research, Virus diseases (animals).

18241-68
A COLLECTIVE OUTBREAK OF TRANSMISSIBLE GASTROENTERITIS IN SWINE. III. ISOLATION OF A VIRUS WITH CYTOPATHOGENIC EFFECT AND ITS PROPERTIES. (JA)
M Eto K Uno M Mishima T Tunoda H Taneno S Watanabe T Ichihara
Jap Vet Med Ass J 21(2):73-76
1968 41.9 J275
Diagnosis, Gastroenteritis, Swine, Viruses. English abstract
Abstract

18242-68
EFFECTS OF SELENIUM AND VITAMIN E ON NUTRITIONAL MUSCULAR DYSTROPHY IN LAMBS.
R C Ewan C A Baumann A L Pope
J Anim Sci 27(3):751-756 REF
26 Jun 1968 49 J82
Animal diseases, Animal nutrition, Animal physiology, Biochemistry, Lambs, Muscular dystrophy, Selenium, Vitamin e.

18243-68
CHARACTERIZATION OF BOVINE VIRAL DIARRHEA VIRUSES BY THEIR INTERACTIONS WITH SUSCEPTIBLE HOST CELLS.
A L Fernelius
Diss Abstr Sect B 28(11):4674B
May 1968 Z5055.U49D53
Bovine virus diarrhea virus, Cells, Cytology, Electron microscopy, Immunodiagnosis, Phenols, Rabbits, Ribonucleic acid, Virus diseases (animals).

18244-68
WATER, ELECTROLYTE, AND ACID-BASE ALTERATIONS IN EXPERIMENTAL CANINE LEPTOSPIROSIS.
D R Finco D G Low
Amer J Vet Res 29(9):1799-1807
Sep 1968 41.8 AM3A
Acids, Animal diseases, Blood serum, Calcium, Dogs, Electrolytes, Injections, Leptospira canicola, Thiocyanates, Water.

18245-68
NEWCASTLE DISEASE: A LEGAL INTERPRETATION.
J Francis
Vet Rec 83(8):205
24 Aug 1968 41.8 V641
Animal diseases, Antibodies, Laboratories, Newcastle disease virus, Research, Swine, Tissue culture.

18246-68
ARTIFICIALLY INDUCED IMMUNITY TO ENZOOTIC ABORTION IN EWES.
F W Frank L H Scrivner L Thomas D G Waldhalm W A Meinershagen
Amer J Vet Res 29(7):1441-1447 REF
Jul 1968 41.8 AM3A
Abortion, Animal diseases, Complement fixation, Immunization, Research, Sheep.

18247-68
A COMPARATIVE STUDY OF CELL WALL GLYCOPEPTIDE STRUCTURE OF SOME BOVINE VIBRIOS.
P H Fung
Diss Abstr Sect B 29(1):289B
Jul 1968 Z5055.U49D53
Assay, Cattle, Cell wall, Chromatography, Glycine, Glycopeptides, Ion exchange, Penicillin, Toxins, Vibrio bubulus, Vibrio fetus.

18248-68
A CASE OF PORCINE ENDOCARDITIS ASSOCIATED WITH STAPHYLOCOCCUS AUREUS.
H D Geissinger C E Andress
Can Vet J 8(10):236-238
Oct 1968 41.8 R3224
Endocarditis, Injections, Microscopy, Morphology, Research, Staphylococcus aureus, Swine.

18249-68
THE EXPERIMENTAL USE OF BULL SEMEN CONTAMINATED WITH PSEUDOMONAS AERUGINOSA ORGANISMS.
S M Getty D J Ellis
Amer Vet Med Ass J 151(12):1688-1691 REF
15 Dec 1967 41.8 AM3
Cattle, Fertility, Pseudomonas aeruginosa, Semen.
Abstract

18250-68
MYOGLOBIN IN CONTROL AND DYSTROPHIC CHICKENS.
D E Goldbloom
Diss Abstr Sect B 29(1):43B
Jul 1968 Z5055.U49D53
Amino acids, Animal diseases, Chickens, Chromatography, Electrophoresis, Extracts, Muscles, Muscular dystrophy, Myoglobin, Sedimentation.

18251-68
THE RESPONSE OF VARIOUS TISSUES IN NEONATE CALVES TO BOVINE PAPILLOMA VIRUS (BPV).
D E Gordon
Diss Abstr Sect B 29(1):5B
Jul 1968 Z5055.U49D53
Bovine papilloma virus, Cattle, Centrifugation, Electron microscopy, Homogenization, Papilloma, Research, Tissues, Virus diseases (animals).

18252-68
AN OUTBREAK OF RINGWORM AMONG CATTLE IN SHIMANE. (JA)
F Hara A Iwata K Iwasaki H Ueno
Jap Vet Med Ass J 21(2):69-72
1968 41.9 J275
Cattle, Epizootic diseases, Ringworm, Trycophyton. English abstract
Abstract

18253-68
SURVIVAL OF SALMONELLA, VIABLE BACTERIAL COUNT AND APPEARANCE OF CONTAMINATION-INDICATING ORGANISMS IN SALMONELLA-POSITIVE FEEDSTUFF. (JA)
H Hashimoto
Jap Vet Med Ass J 21(3):109-112, 118
1968 41.9 J275
Diagnosis, Feed, Fish meal, Food contamination, Salmonella. English summary
Abstract

18254-68
STRYCHNINE LEVELS IN TISSUES AND STOMACH CONTENTS OF POISONED DOGS: AN ELEVEN YEAR SURVEY.
R C Hatch H S Funnell
Can Vet J 9(7):161-164
Jul 1968 41.8 R3224
Dogs, Liver, Poisoning, Stomach, Strychnine, Surveys, Tissues. French summary

18255-68
CLOSTRIDIUM PERFRINGENS TYPE A INFECTION OF LIGATED INTESTINAL LOOPS IN LAMBS.
A H W Hauschild L Nüild W J Dorward
Appl Microbiol 16(8):1235-1239 REF
Aug 1968 448.3 AP5
Animal diseases, Assay, Clostridium perfringens, Culture media, Enteritis, Injections, Intestines, Laboratory animals, Lambs, Research.

18256-68
LIPIDS OF VENEZUELAN EQUINE ENCEPHALOMYELITIS VIRUS AND THEIR RELATIONSHIP TO THE LIPIDS OF THE HOST.
F P Heydrick
Diss Abstr Sect A 29(1):289B
Jul 1968 Z5055.U49D5
Animal diseases, Chick embryos, Lipids, Phospholipids, Poultry, Venezuelan equine encephalomyelitis, Virus diseases (animals).

18257-68
AN ENZOOTIC OF PSEUDORABIES IN SWINE IN CALIFORNIA.
J A Howarth
Amer Vet Med Ass J 152(8):1114-1118 REF
15 Apr 1968 41.8 AM3
Blindness, Garbage (feed), Mortality, Nervous system diseases, Pseudorabies, Retina, Swine, Temperature, Virus diseases (animals).

18258-68
DEGRADATION OF CELLULAR RIBONUCLEIC ACID IN NEWCASTLE DISEASE VIRUS INFECTED CELLS.
W H Huo
Diss Abstr Sect B 29(1):289B-290B
Jul 1968 Z5055.U49D53
Cells, Chick embryos, Deoxyribonucleic acid, Metabolism, Newcastle disease, Nucleic acids, Radioactivity, Research, Ribonucleic acid, Virus diseases (animals).

18259-68
FIELD EXPERIMENT WITH THE ANTICOCCIDIAL DIMETHYALIUM. (JA)
I Inoue
Jap Vet Med Ass J 21(1):27-32
1968 41.9 J275
Coccidiosis, Dimethyalium, Eimeria acervulina, Eimeria brunetti, Eimeria mitis, Therapeutics.

18260-68
THE EXPERIMENTAL PRODUCTION OF A FORMALIN-KILLED JAPANESE ENCEPHALITIS VIRUS VACCINE FROM PORCINE KIDNEY CELL CULTURES.
Y K Inoue Y Nishibe
Arch Gesamte Virusforsch 21(2):192-199 REF
Sep 1967 448.3 AR23
Japanese b encephalitis virus, Productivity, Tissue culture, Vaccines.
Abstract

18261-68
A FERN POISONING-LIKE DISEASE OBSERVED IN AN IMPROVED PASTURE. (JA)
F Ito
Jap Vet Med Ass J 20(9):389-394
1967 41.9 J275
Livestock, Pasture management, Poisonous plants, Pteridophyta.

18262-68
OXALATE METABOLISM IN SHEEP II. EFFECT OF LOW LEVEL HALOGETON GLOMERATUS INTAKE ON ELECTROLYTE METABOLISM.
L F James J C Street J E Butcher J L Shupe
J Anim Sci 27(3):724-729 REF
May 1968 49 J82
Animal physiology, Electrolytes, Halogeton glomeratus, Metabolism, Oxalates, Sheep.

18263-68
DUCK PLAGUE.
J Jansen
Amer Vet Med Ass J 152(7):1009-1016 REF
01 Apr 1968 41.8 AM3
Biological transport, Cloaca, Ducks, Esophagus, Immunity, Mortality, Mucosal disease, Plague, Purpura hemorrhagica, Virus diseases (animals).

18264-68
MYCOPLASMAS: THEIR ROLE IN BOVINE DISEASE.
D E Jasper
Amer Vet Med Ass J 151(12):1650-1655 REF
15 Dec 1967 41.8 AM3
Arthritis, Cattle, Mastitis, Mycoplasma, Pleuropneumonia, Reproductive organs.
Abstract

18265-68
CALIFORNIA-ENCEPHALITIS-GROUP VIRUSES IN FLORIDA RABBITS: REPORT OF EXPERIMENTAL AND SENTINEL STUDIES.
W L Jennings A L Lewis G E Sather W M Hammon J O Bond
Amer J Trop Med Hyg 17(5):781-787 REF
Sep 1968 448.8 AM326
Antibodies, Antigens, California encephalitis virus, Hemagglutination-inhibition test, Injections, Laboratory animals, Measurement, Rabbits, Research, Serological tests, Virus diseases (animals).

18266-68
SEROLOGICAL TESTS FOR THE DETECTION OF ANTIBODIES TO MYCOPLASMA GALLISEPTICUM IN CHICKENS AND TURKEYS.
F T W Jordan P Kulasegaram
J Hyg 66(2):249-267 REF
Jun 1968 449.8 J82
Antibodies, Mycoplasma gallisepticum, Poultry, Serological tests.
Abstract

18267-68
PATHOLOGY A-D IMMUNOFLUORESCENCE STUDIES OF BOVINE MYCOPLASMA MASTITIS.
E Karbe
Diss Abstr Sect B 28(8):3120B
Feb 1968 Z5055.U49D53
Animal diseases, Antibodies, Cattle, Immunofluorescence, Mastitis, Milk, Mycoplasma agalactiae, Rabbits.

18268-68
PATHOLOGICAL CHANGES OF ACUTE NEWCASTLE DISEASE IN AN OUTBREAK IN MIYAZAKI PREFECTURE WITH SPECIAL REFERENCE TO THOSE OF THE CLOACA. (JA)
M Kawasaki
Jap Vet Med Ass J 21(3):113-118
1968 41.9 J275
Chickens, Cloaca, Epizootic diseases, Histology, Newcastle disease.

18269-68
ANTIBODY RESPONSE TO IMMUNIZATION IN EXPERIMENTAL SALMONELLOSIS.
K V Kenny
Diss Abstr Sect B 29(1):290B
Jul 1968 Z5055.U49D53
Agglutination, Animal diseases, Antibodies, Assay, Bacteria, Enterobacteriaceae, Escherichia coli, Immunology, Mice, Salmonella typhimurium, Salmonellosis, Serological tests.

18270-68
MEDICATED FEEDS; APPROVAL OF NEW DRUG APPLICATIONS.
J K Kirk
Fed Regist 33(128):9609
02 Jul 1968 L1.451
Drug therapy, Drugs, Feed, Feed additives, Therapeutics.

18271-68
FOOD INTAKE AND GROWTH OF BURRO FOALS AFTER 250 ROENTGENS OF COBALT-60 WHOLE-BODY GAMMA IRRADIATION.
J J Knapka D G Brown K M Barth
Radiat Res 36(1):158-165 REF
Oct 1968 334.8 R11
Animal physiology, Asses, Cobalt, Food, Gamma rays, Irradiation, Isotopes, Metabolism, X-rays.

18272-68
THE EQUINE RESPIRATORY DISEASE SYNDROME IN THE PACIFIC NORTHWEST.
L M Koger
Amer Vet Med Ass J 151(12):1611-1614
15 Dec 1967 41.8 AM3
Horses, Pacific Northwest, Respiratory diseases.

18273-68
SEROLOGIC RESPONSE OF SWINE TO ESCHERICHIA COLI ANTIGENS.
E M Kohler R B Moore S Smith
Amer J Vet Res 29(7(:1419-1428 REF
Jul 1968 41.8 AM3A
Antigens, Blood serum, Colibacillosis, Escherichia coli, Immunization, Swine.

18274-68
EFFECTS OF A LOW MANGANESE DIET ON CERTAIN OVINE CHARACTERISTICS.
J W Lassiter J D Morton
J Anim Sci 27(3):776-779
May 1968 49 J82
Anatomy, Animal nutrition, Animal physiology, Diet, Lambs, Manganese.

18275-68
TREATMENT OF STRONGYLOIDES RANSOMI INFECTION OF PIGS WITH THIABENDAZOLE AND DICHLORVOS.
S E Leland F C Neal C B Plummer
Amer J Vet Res 29(6):1235-1240
Jun 1968 41.8 AM3A
Dichlorvos, Eggs, Epizootic diseases, Feeding, Strongyloides ransomi, Swine, Thiazolyl)-benzimidizole, 2-(4-.

18276-68
CONTAGIOUS BOVINE PLEUROPNEUMONIA AND THE PROBLEMS ASSOCIATED WITH ITS CONTROL.
E P Lindley
Amer Vet Med Ass J 151(12):1810-1815 REF
15 Dec 1967 41.8 AM3
Cattle, Epizootic diseases, Goats, Mycoplasma mycoides, Therapeutics.

18277-68
BASIC BIOLOGICAL CHARACTERISTICS OF MYCOPLASMA.
D L Madden N B McCullough
Amer Vet Med Ass J 151(12):1638-1649 REF
15 Dec 1967 41.8 AM3
Biochemistry, Biology, Classification, Morphology, Mycoplasma, Physiology.
Abstract

18278-68
THE USE OF POLYVALENT INACTIVATED VACCINE THERAPEUTICALLY AGAINST EQUINE INFLUENZA.
C I Manners
Amer Vet Med Ass J 151(12):1609-1610.
15 Dec 1967 41.8 AM3
Equine influenza, Horses, Therapeutics, Vaccines.

18279-68
GASTROINTESTINAL PARASITISM IN FEEDER CALVES OF SOUTHERN ILLINOIS.
M E Mansfield J R Pickard G W Meycrholz H N Becker
Amer J Vet Res 29(7):1479-1487
Jul 1968 41.8 AM3A
Calves, Gastrointestinal system, Nematodes, Parasitism, Strongyloides.

18280-68
INCREASED INCIDENCE OF AVIAN LEUKOSIS IN RESPONSE TO EXCESS VITAMIN A.
B E March J Bicly
Nature 214(5085):287-288 REF
15 Apr 1967 472 N21
Animal nutrition, Avian leukosis complex, Birds, Diagnosis, Mortality, Research, Virus diseases (animals), Vitamin a.

18281-68
THE UTILIZATION OF VITAMIN A AND CAROTENE BY RUMINANTS. I. VITAMIN A POTENCY OF CAROTENES IN CORN SILAGE FED TO LAMBS. 2. THE EFFECT OF TIME AND ROUTE OF ADMINISTRATION OF VITAMIN A ON LIVER VITAMIN A STORAGE BY STEERS. 3. THE EFFECT OF ROUTE OF ADMINISTRATION OF VITAMIN A ON BLOOD SERUM AND LIVER VITAMIN A CONCENTRATIONS IN STEERS AT SUBSEQUENT TIME INTERVALS.
F H Martin
Diss Abstr Sect B 29(1):256B
Jul 1968 Z5055.U49D53
Animal nutrition, Blood serum, Carotenes, Cattle, Corn, Diet, Feed, Lambs, Liver, Research, Ruminants, Vitamin a.

18282-68
PREVALENCE OF TRICHINELLA SPIRALIS IN WILD ANIMALS ON TWO ILLINOIS SWINE FARMS.
R J Martin P R Schnurrenberger F L Andersen C K Hsu
J Parasitol 54(1):108-111
Feb 1968 448.8 J824
Mice, Rats, Swine, Trichinella spiralis, Wildlife diseases.
Abstract: On one farm only grain and commercial supplements were utilized as swine feed. Of 239 wild animals only one r. nurvegicus and one P. leucopus were found infected with T. spiralis. This is the 1st. report of natural T. spiralis in P. leucopus. Cooked garbage was fed to swine on the 2nd farm. Of 250 animals only two R. norvegicus were found infected with T. spiralis.

18283-68
THE SIGNIFICANCE OF THE STAY OF NECATOR AMERICANUS LARVAE IN THE PUPPY LUNG ON THEIR FURTHER DEVELOPMENT. (JAP)
K Matsuno I Nose M Ishikawa S Okada Y Takahashi
Jap J Parasitol 16(5):313-318 REF
Oct 1967 436.8 J27

Dogs, Lungs, Necator americanus, Necatoriasis, Respiratory system. English abstract

Abstract

18284-68
HISTOPATHOLOGICAL AIDS TO THE DIAGNOSIS OF CERTAIN POULTRY DISEASES.
O Y Mayor
Vet Bull 38(5):273-285 REF
May 1968 41.8 T752
Deficiency diseases, Diagnosis, Histology, Livestock diseases, Lymphomatosis, Neoplasms, Nervous system, Poultry, Respiration.

18285-68
ELECTRON OPTICAL AND BUOYANT DENSITY STUDIES OF HOG CHOLERA VIRUS.
A Mayr P A Bachmann B E Sheffy G Siegl
Arch Gesamte Virusforsch 21(1):113-119 REF
Jul 1967 448.3 AR23
Biophysics, Density, Electron microscopy, Hog cholera virus, Swine.

Abstract

18286-68
PSITTACOSIS-LYMPHOGRANULOMA VENEREUM AGENT ISOLATED DURING AN ABORTION EPIZOOTIC IN GOATS.
E H McCauley E L Tieken
Amer Vet Med Ass J 152(12):1758-1765 REF
15 Jun 1968 41.8 AM3
Abortion, Antibiotics, Cattle, Epizootic diseases, Goats, Miyagawanella group viruses, Penicillin, Sheep.

Abstract: The agent was isolated from tissue of an aborted goat fetus during an abortion epizootic in a herd of 216 milk goats. The herd had a 12 per cent abortion rate during the 1967 parturition season and a 38 per cent rate during one month. A marked decreased in incidence was observed after penicillin therapy was given to pregnant goats. The isolate caused abortion in 2 susceptible cows and 1 ewe. Evidence indicates the probable introduction of the agent into this herd by male and female goats from another source which had a history of high abortion rates in primiparous goats. Females bred to males from this source had a higher incidence of abortion than those bred to other males.

18287-68
SALMONELLA DUBLIN MENINGITIS IN PIGLETS.
B A McErlean
Vet Rec 82(9):257-258
02 Mar 1968 41.8 V641
Baby pigs, Brain, Livestock diseases, Meningitis, Salmonella dublin.

18288-68
FOOT-AND-MOUTH DISEASE IN SWINE. I. THE IMMUNE RESPONSE OF SWINE TO CHEMICALLY-TREATED AND NON-TREATED FOOT-AND-MOUTH DISEASE VIRUS.
P D McKercher A R Giordano
Arch Gesamte Virusforsch 20(1):39-53 REF
Feb 1967 448.3 AR23
Antibodies, Foot-and-mouth disease virus, Immunization, Serological tests, Swine.

Abstract

18289-68
FOOT-AND-MOUTH DISEASE IN SWINE. II. SOME PHYSICALCHEMICAL CHARACTERISTICS OF ANTIBODIES PRODUCED BY CHEMICALLY-TREATED AND NON-TREATED FOOT-AND-MOUTH DISEASE VIRUS.
P D McKercher A R Giordano
Arch Gesamte Virusforsch 20(1):54-70 REF
Feb 1967 448.3 AR23
Antibodies, Biochemistry, Biophysics, Foot-and-mouth disease virus, Swine.

Abstract

18290-68
COPPER AND ASCORBIC ACID IN GUINEA PIG TISSUES AS EFFECTED BY DIETARY INTAKE.
V R McMasters
Diss Abstr Sect B 29(1):257B
Jul 1968 Z5055.U49D53
Animal histology, Animal nutrition, Animal physiology, Ascorbic acid, Copper, Cytoplasm, Deficiency diseases, Diet, Guinea pigs, Metabolism, Tissues, Toxicology.

18291-68
A FLUORESCENT MICRO-PLAQUE ASSAY FOR HOG CHOLERA VIRUS. LOCALIZATION OF INFECTION WITH HOMOLOGOUS ANTISERUM.
W L Mengeling
Arch Gesamte Virusforsch 23(1-2):27-39 REF
Feb 1968 448.3 AR23
Diagnosis, Fluorescent antibody technic, Hog cholera virus, Physiology.

Abstract

18292-68
MINERAL AND ENDOCRINE INTERRELATIONSHIPS IN RENAL CALCIFICATION.
D L Meyer
Diss Abstr Sect B 28(8):3120B-3121B
Feb 1968 Z5055.U49D53
Biological assay, Blood serum, Calcification (physiological), Kidneys, Magnesium, Parathyroid glands, Phosphorus, Rats, Thyroxine.

18293-68
RESPONSE OF LYMPHOCYTE-DEPLETED CALVES TO FLUID TETANUS TOXOID.
H W Moon R D Stoner D D Joel A D Chanana E P Cronkite
Amer J Vet Res 29(6):1211-1214
Jun 1968 41.8 AM3A
Antibodies, Blood, Calves, Irradiation, Lymph, Tetanus toxoid.

18294-68
LIVER GRANULOMAS OF TURKEYS CAUSTIVE AGENTS AND MECHANISM OF INFECTION.
W E C Moore W B Gross
Avian Dis 12(3):417-422
Aug 1968 41.8 AV5
Animal diseases, Bacteria, Culture media, Germfree life, Granuloma, Liver, Morphology, Streptococcus fecalis, Turkeys.

18295-68
EFFECTS OF GENETIC CELLULAR RESISTANCE ON CELL TRANSFORMATION AND VIRUS REPLICATION IN CHICKEN HEMATOPOIETIC CELL CULTURES INFECTED WITH AVIAN MYELOBLASTOSIS VIRUS (BAI-0A).
C Moscovici P K Vogt
Virology 35(4):487-497 REF
Aug 1968 448.8 V81
Avian myeloblastosis virus, Cells, Chickens, Culture media, Genetics, Hematopoietic system, Neoplastic diseases, Virus diseases (animals).

18296-68
THE ROLE OF THE EPIDEMIOLOGIST IN THE CONTROL AND ERADICATION PROGRAMS OF POULTRY DISEASES.
J I Moulthrop E E Grass B S Pomeroy
Amer Vet Med Ass J 151(12):1853-1856
15 Dec 1967 41.8 AM3
Epidemiology, Epizootic diseases, Poultry.

18297-68
LONGEVITY OF AN EXPERIMENTAL INFECTION WITH DIROFILARIA IMMITIS IN A DOG.
W L Newton
J Parasitol 54(1):187-188
Feb 1968 448.8 J824
Animal diseases, Anopheles quadrimaculatus, Dirofilaria immitis, Dogs, Longevity.

18298-68
ANIMAL SENTINELS IN A STATEWIDE ARTHROPOD-BORNE ENCEPHALITIS SURVEILLANCE PROGRAM.
J B Nichols W J Bigler
Amer Vet Med Ass J 151(12):1767-1771 REF
15 Dec 1967 41.8 AM3
Epidemiology, Equine encephalomyelitis, Horses, Insect vectors, Surveys.

Abstract

18299-68
UTILIZATION OF THE CARD TEST IN BRUCELLOSIS ERADICATION.
P Nicoletti
Amer Vet Med Ass J 151(12):1778-1783 REF
15 Dec 1967 41.8 AM3
Agglutination test, Brucellosis, Cattle, Serodiagnosis.

Abstract

18300-68
PLACENTAL PATHOLOGY OF EXPERIMENTALLY-INDUCED ENZOOTIC ABORTION IN EWES.
M N Novilla
Diss Abstr Sect B 28(8):3121B
Feb 1968 Z5055.U49D53
Agricultural research, Enzootic abortion, Fetal membranes, Livestock diseases, Microorganisms, Placenta, Sheep.

18301-68
TRANSMISSION OF SALMON POISONING DISEASE TO DOGS BY NANOPHYETUS SALMINCOLA EGGS.
P A Nyberg
Diss Abstr Sect B 28(11):4805B
May 1968 Z5055.U49D53
Animal diseases, Dogs, Inclusion bodies, Injections, Nanophyetus salmincola, Neorickettsia helminthoeca, Trematoda.

18302-68
A COMPARISON OF METHODS OF MEASURING THE PERSISTANCE OF NEUTRALIZING AND HAEMAGGLUTININ-INHIBITING ANTIBODIES TO LOUPING ILL VIRUS IN EXPERIMENTALLY INFECTED SHEEP.
K J O'Reilly C E G Smith D A McMahon E T W Bowen G White
J Hyg 66(2):217-227 REF
Jun 1968 449.8 J82
Antibodies, Livestock diseases, Louping ill virus, Serological tests, Serum neutralization test, Sheep.

Abstract

18303-68
RABIES CONTROL IN PUBLIC HEALTH ADMINISTRATION. (JA)
H Otani
Jap Vet Med Ass J 20(9):382-385
1967 41.9 J275
Animal diseases, Epidemiology, Public health administration, Rabies.

18304-68
STUDIES ON THE REPLICATION OF AFRICAN HORSE-SICKNESS VIRUS IN TWO DIFFERENT CELL LINE CULTURES.
Y Ozawa
Arch Gesamte Virusforsch 21(2):155-169 REF
Sep 1967 448.3 AR23
Acridine orange, African horse sickness virus, Nucleic acids, Physiology, Tissue culture.

Abstract

18305-68
MITOCHONDRIAL INVOLVEMENT IN THE HOST-PARASITE RELATIONSHIP.
S G Pal
Arkiv Zool 20(1):79-83
1967 410.9 SV22
Cytology, Electron microscopy, Mice, Mitochondria, Toxoplasma gondii, Toxoplasmosis.

Abstract

18306-68
BIOCHEMICAL AND BIOPHYSICAL PROPERTIES OF CANINE DISTEMPER VIRUS.
L A Phillips
Diss Abstr Sect B 28(11):4679B
May 1968 Z5055.U49D53
Biochemistry, Canine distemper virus, Density, Physiology, Ribonucleic acid, Taxonomy, Virus diseases (animals).

18307-68
HISTIDINE DECARDOXYLASE IN STRAINS OF ESCHERICHIA COLI ISOLATED FROM NORMAL SWINE AND SWINE WITH EDEMA DISEASE AND ENTERIC DISORDERS.
J A Pickrell H E Rhoades J Gossling
Amer J Vet Res 29(7):1397-1399
Jul 1968 41.8 AM3A
Animal abnormalities, Clostridium, Edema, Enteritis, Escherichia coli, Histamine, Histidine decarboxylase, Pseudomonas fluorescens, Research, Swine.

18308-68
CHANGES IN PROTEIN AND NUCLEIC ACID METABOLISM IN BABY HAMSTER KIDNEY CELLS INFECTED WITH FOOT-AND-MOUTH DISEASE VIRUS.
J Polatnick G F V Woude R B Arlinghaus
Arch Gesamte Virasforsch 23(3):218-226 REF
Mar 1968 448.3 AR23
Deoxyribonucleic acid, Foot-and-mouth disease virus, Hamsters, Kidneys, Metabolism, Physiology, Ribonucleic acid, Tissue culture.

Abstract

18309-68
IONIZING IRRADIATION OF FOOT-AND-MOUTH DISEASE VIRUS AND ITS RIBONUCLEIC ACID.
J Polatnick H L Bachrach
Arch Gesamte Virasforsch 23(1-2):96-104 REF
Feb 1968 448.3 AR23
Biochemistry, Foot-and-mouth disease virus, Ionizing radiation, Ribonucleic acid, Tissue culture.

Abstract

18310-68
EXPERIMENTAL TRANSMISSION OF TWO CANINE NEOPLASMS: LYMPHOSARCOMA AND MAST CELL LEUKEMIA.
J E Post
Diss Abstr Sect B 29(1):259B-260B
Jul 1968 Z5055.U49D53
Animal diseases, Cells, Dogs, Electron microscopy, Immunology, Leukemia, Lymphosarcoma, Neoplasms, Research, Transplanting.

18311-68
EFFECT OF BURSECTOMY ON THE ROUS VIRUS TUMOUR INDUCTION IN CHICKENS.
R Radzichovskaja
Nature 213(5082):1259-1260 REF
25 Mar 1967 472 N21
Animal diseases, Antibodies, Bursectomy, Chickens, Research, Rous sarcoma, Rous sarcoma virus.

18312-68
AGE SUSCEPTIBILITY AND EXCRETION OF SALMONELLA TYPHIMURIUM IN CALVES.
R A Robinson K I Loken
J Hyg 66(2):207-216 REF
Jun 1968 449.8 J82
Calves, Diagnosis, Livestock diseases, Salmonella typhimurium, Salmonellosis.

Abstract

18313-68
SUCCESSFUL TREATMENT OF COCCIDIOSIS IN LAMBS.
D B Ross
Vet Rec 83(8):189-190
24 Aug 1968 41.8 V641
Amprolium, Coccidiosis, Eimeria, Ethopabate, Lambs, Research.

18314-68
ALTERATIONS IN THE RESPONSE AND FUNCTIONS OF THE CHICKEN PANCREAS INDUCED BY FEEDING UNHEATED AND AUTOCLAVED SOYBEAN MEAL.
A J Salmon
Diss Abstr Sect B 29(2):669B
Aug 1968 Z5055.U49D53
Animal physiology, Chickens, Feeding, Pancreas, Soybean meal.

18315-68
IMMUNIZATION OF FOXES WITH INACTIVATED WIRUS RABIES VACCINE.
R C Schmidt R K Sikes
Amer Vet Med Ass J 29(9):1843-1847
Sep 1968 41.8 AM3
Animal diseases, Antibodies, Foxes, Immunization, Injections, Rabies virus, Research, Serum neutralization test, Vaccines.

18316-68
SOME FACTORS AFFECTING INTERFERON PRODUCTION BY FOOT-ANDMOUTH DISEASE VIRUS IN BOVINE TISSUE CULTURES.
R F Sellers J H Bennett G N Mowat W A Snowdon
Arch Gesamte Virusforsch 23(1-2):1-11 REF
Feb 1968 448.3 AR23
Cattle, Cytopathology, Foot-and-mouth disease virus, Interferon, Physiology, Tissue culture.

Abstract

18317-68
INTERFERENCE BETWEEN MODIFIED AND VIRULENT STRAINS OF FOOTAND-MOUTH DISEASE VIRUS.
R F Sellers G N Mowat
Arch Gesamte Virasforsch 23(1-2):20-26 REF
1968 448.3 AR23
Cattle, Cytopathology, Foot-and-mouth disease virus, Interferon, Physiology, Tissue culture.

Abstract

18318-68
AN OUTBREAK OF ORNITHOSIS IN FOWLS.
S A Sheikh M A Mahmood N A Khan
Pakistan J Sci 19(1-2)64-66
Jan 1967 475 P172
Autopsies, Ornithosis, Poultry, Therapeutics.

Abstract

18319-68
EXPERIMENTAL PRODUCTION OF RHEUMATOID ARTHRITIS OF SWINE: PHYSIOPATHOLOGIC CHANGES OF TISSUES.
D Sikes
Amer J Vet Res 29(9):1719-1731 REF
Sep 1968 41.8 AM3A
Animal diseases, Arthritis, Blood serum, Erysipelothrix insidiosa, Histology, Hypergammaglobulinemia, Serological tests, Swine, Tissues.

18320-68
ENZOOTIC RABIES IN RODENTS IN THAILAND.
P C Smith K Lawhaswasdi W E Vick J S Stanton
Nature 217(5132):954-955
09 Mar 1968 472 N21
Animal vectors, Diagnosis, Fluorescent antibody technic, Rabies, Rabies virus, Rodents, Virus diseases (animals).

18321-68
WHAT VETERINARIANS CAN DO ABOUT THE SALMONELLA PROBLEM.
G H Snoeyenbos
Amer Vet Med Ass J 151(12):1795-1800 REF
15 Dec 1967 41.8 AM3
Diagnosis, Epidemiology, Epizootic diseases, Food sanitation, Salmonellosis.

18322-68
INFLUENCE OF STATOLON-INDUCED INTERFERON ON RABIES VIRUS INFECTION IN MICE.
O A Soave
Amer J Vet Res 29(7):1507-1508
Jul 1968 41.8 AM3A
Interferon, Mice, Rabies virus, Statolon, Veterinary medicine.

18323-68
SEROLOGIC SURVEY FOR TOXOPLASMA ANTIBODIES IN A COLONY OF RESEARCH DOGS AND CATS IN CALIFORNIA.
O A Soave
Amer J Vet Res 29(7):1505-1506
Jul 1968 41.8 AM3A
Antibodies, Cats, Dogs, Research, Serological tests, Toxoplasma gondii.

18324-68
EIGHT FELINE VIRUSES: AN ELECTRON MICROSCOPIC STUDY.
J D Strandberg
Diss Abstr Sect B 29(1):292B
Jul 1968 Z5055.U49D53
Cats, Cells, Electron microscopy, Kidneys, Morphology, Research, Virus diseases (animals).

18325-68
IMPROVED TECHNIQUES FOR THE DETECTION OF FOOT-AND-MOUTH DISEASE VIRUS IN CARRIER CATTLE.
P Sutmoller G E Cottral
Arch Gesamte Virusforsch 21(2):170-177 REF
Sep 1967 448.3 AR23
Biological assay, Cattle, Diagnosis, Foot-and-mouth disease virus.

Abstract

18326-68
THE EPIZOOTIOLOGICAL IMPORTANCE OF FOOT-AND-MOUTH DISEASE CARRIERS. I. EXPERIMENTALLY PRODUCED FOOT-AND-MOUTH DISEASE CARRIERS IN SUSCEPTIBLE AND IMMUNE CATTLE.
P Sutmoller J W McVicar G E Cottral
Arch Gesamte Virasforsch 23(3):227-235 REF
Mar 1968 448.3 AR23
Animal vectors, Cattle, Epidemiology, Epizootic diseases, Foot-and-mouth disease, Immunity.

Abstract

18327-68
THE CONNECTION BETWEEN SUNSPOT CYCLES AND MASS MORTALITY AMONG VERTEBRATES AND NON-VERTEBRATES DUE TO PARASITIC ACTIVITY. (GE)
L Szidat
Z Parasitenk 30(1):1-17 REF
1968 442.8 Z33F
Animal ecology, Epidemiology, Parasitism, Solar disturbances, Trematoda, Weather. English and german abstract

Abstract

18328-68
ELECTRON MICROSCOPY OF BOVINE PAPILLOMA AND DEER FIBROMA VIRUSES.
M Tajima D E Gordon C Olson
Amer J Vet Res 29(6):1185-1194 REF
Jun 1968 41.8 AM3A
Bovine papilloma virus, Cattle, Cells, Deer, Electron microscopy, Fibroma, Tissues, Virus diseases (animals).

18329-68
RELATIONSHIP BETWEEN INFECTING DOSE, MUSCLE PARASITISM,AND ANTIBODY RESPONSE IN EXPERIMENTAL TRICHINOSIS IN RABBITS.
C E Tanner
J Parasitol 54(1):98-107 REF
Feb 1968 448.8 J824
Antibodies, Dosage, Larvae, Parasitism, Rabbits, Trichinella spiralis, Trichinosis.

Abstact: The number of parasites obtained in the muscle and the serum antibody titer of the experimental animals were determined. It was found that the degree of muscle parasitism was independent of

the size of the infecting dose with one exception, all doses produced same level of parasitism.

18330-68
EPIZOOTIOLOGIC OBSERVATIONS OF CANINE FILARIASIS IN GEORGIA.
J P Thrasher J R Clanton
Amer Vet Med Ass J 152(10):1517-1520 REF
15 May 1968 41.8 AM3
Animal diseases, Animal ecology, Dipetalonema reconditum, Dirofilaria immitis, Dogs, Filariasis, Insect vectors, Nematodes, Siphonaptera.

18331-68
THE EFFECT OF TRAUMA ON PRODUCTION OF HERPES INTERFERON IN GUINEA PIGS.
T Tokumaru
Arch Gesamte Virusforsch 21(1):61-70 REF
Jul 1967 448.3 AR23
Animal physiology, Guinea pigs, Herpes simplex, Injuries, Interferon.
Abstract

18332-68
COMMON DISEASE PROBLEMS IN LABORATORY ANIMALS.
B F Trum J K Routledge
Amer Vet Med Ass J 151(12):1886-1896 REF
15 Dec 1967 41.8 AM3
Epizootic diseases, Laboratory animals, Therapeutics.

18333-68
ADMINISTRATION OF GLYCURONIC ACID AND ITS EXCRETION IN DAIRY COWS. (JA)
J Ushijima R Yuasa
Jap Vet Med Ass J 21(2):79-81 REF
1968 41.9 J275
Cattle, Glycuronic acids, Metabolism, Urine. English abstract
Abstract

18334-68
THE EFFECT OF DIET ON THE UTILIZATION OF STABLE AND RADIOACTIVE COPPER IN RUMINANTS.
P A Van Walleghem
Diss Abstr Sect B 29(2):425B-426B
Aug 1968 Z5055.U49D53
Animal physiology, Biochemistry, Copper, Diet, Metaholism, Radioactivity, Ruminants.

18335-68
THE OCCURRENCE OF BACTERIA IN CHRONIC PURULENT EYE DISCHARGE.
M A J Verner J W Gunnink
J Small Anim Pract 9(1):33-36 REF
Jan 1968 41.8 J8292
Bacteria, Cats, Conjunctivitis, Dogs, Eyes. English, french and german abstract
Abstract

18336-68
EXPERIMENTAL BLUETONGUE DISEASE IN WHITE-TAILED DEER.
R A Vosdingh O O Trainer B C Easterday
Can J Comp Med Vet Sci 32(1):382-387 REF
Jan 1968 41.8 C162
Animal physiology, Antibodies, Bluetongue virus, Deer, Immunity, Sheep, Virus diseases (animals).
Abstract: Clinical signs and lesions of BTV in deer were described. The incubation period, signs and lesions of Bt and epizootic hemorrhagic disease of deer appear to be similar. Neutralizing antibodies were detected in all of the convalescent sera.

18337-68
BIOCHEMICAL AND SEROLOGIC CHARACTERESTICS OF VIBRIO ISOLANTS FROM CATTLE.
A F Walsh F H White
Amer J Vet Res 29(7):1376-1383
Jul 1968 41.8 AM3A
Antigens, Biochemistry, Cattle, Flagella, Serological tests, Vibrio buhulus, Vihrio fetus.

18338-68
PNEUMONIA OF SHEEP IN KENYA. II. PATHOLOGY OF CHRONIC PROGRESSIVE PNEUMONIA.
J G Wandera
Bull Epizoot Dis Afr 15(4):393-407 REF
Dec 1967 41.8 B872
Jaagziekte, Livestock diseases, Pneumonia, Sheep.

18339-68
BIOPHYSICAL STUDIES OF TESCHEN DISEASE VIRUS (TALFAN STRAIN).
R E Warrington
Arch Gesamte Virusforsch 21(1):78-90 REF
Jul 1967 448.3 AR23
Biophysics, Electron microscopy, Properties, Teschen disease virus.
Abstract

18340-68
SOME STUDIES ON THE PATHOGENESIS AND EPIZOOTIOLOGY OF EPIZOOTIC HEMORRHAGIC DISEASE OF DEER.
A R Wilhelm
Diss Abstr Sect B 28(11):4681B
May 1968 Z5055.U49D53
Antibodies, Antigens, Deer, Epizootic diseases, Hematology, Research, Serological tests, Serum, Virus diseases (animals).

18341-68
THE PENETRATION PATTERNS OF SALMONELLA TYPHIMURIUM THROUGH THE OUTER STRUCTURES OF CHICKEN EGGS.
J E Williams L H Dillard G O Hall
Avian Dis 12(3):445-466 REF
Aug 1968 41.8 AV5
Animal diseases, Chickens, Cuticle, Eggs, Salmonella typhimurium, Temperature.

18342-68
SOURCES OF SALMONELLAS IN MARKET SWINE.
L P Williams K W Newell
J Hyg 66(2):281-293 REFS
Jun 1968 449.8 J82
Environment, Salmonella, Swine.
Abstract

18343-68
STAINED MONOLAYER TEST: A COLOR TEST IN DISPOSABLE PLASTIC TRAYS FOR TITRATING TRANSMISSIBLE GASTROENTERITIS VIRUS AND NEUTRALIZING ANTIBODIES.
K H Witte B C Easterday
Amer J Vet Res 29(7):1409-1417
Jul 1968 41.8 AM3A
Antibodies, Equipment, Gastroenteritis, Immunity, Infectious diseases, Swine, Viruses, Volumetric analysis.

18344-68
ACUTE INFECTIOUS BOVINE RHINOTRACHEITIS AND SALMONELLOSIS IN A DAIRY HERD.
G T Woods L E Hanson G A Swenson H E Rhoades
Amer Vet Med Ass J 152(10):1530-1535 REF
15 May 1968 41.8 AM3
Abortion, Animal diseases, Dairy cattle, Infectious bovine rhinotracheitis virus, Milk, Mortality, Salmonella typhimurium.
Abstract: Necropsy findings in a cow consisted primarily of ulcerations of the omasum and abomasum.

18345-68
THE INFLUENCE OF THE HOST CELL, IONIC STRENGTH AND CHYMOTRYPSIN ON FOOT-AND-MOUTH DISEASE VIRUS ELECTROPHORETIC MOBILITY.
G F V Woude R Trautman H L Bachrach
Arch Gesamte Virusforsch 20(1):71-80 REF
Feb 1967 448.3 AR23
Biochemistry, Biophysics, Chymotrypsin, Electrophoresis, Foot-and-mouth disease virus.
Abstract

18346-68
DETECTION OF ANTIBIOTIC-FAST STAPHYLOCOCCI IN OTITIS EXTERNA IN DOGS. (JA)
H Yagi
Jap Vet Med Ass J 21(3):102-106
1968 41.9 J275
Antibiotics, Diagnosis, Dogs, Otitis, Staphylococcus, Therapeutics.

ARTHROPODS

18347-68
FURTHER EVALUATION OF ANIMAL SYSTEMIC INSECTICIDES, 1967.
R O Drummond
J Econ Entomol 61(5):1261-1264 REF
15 Oct 1968 421 J822
Animals, Biochemistry, Cattle, Chemical control (insects), Feed, Hypoderma, Insecticides, Spraying, Tables (data).

18348-68
TICK RESISTANCE IN CATTLE: ITS STABILITY AND CORRELATION WITH VARIOUS GENETIC CHARACTERISTICS.
J Francis G C Ashton
Australian J Exp Biol Med Sci 45(2):131-140 REF
Apr 1967 442.8 AU7
Boophilus microplus, Cattle, Genetics, Ixodides, Surveys.
Abstract

18349-68
HORN FLY CONTROL WITH COUMAPHOS.
M J Janes B W Hayes D W Beardsley
J Econ Entomol 61(5):1176-1178
15 Oct 1968 421 J822
Biochemistry, Cattle, Chemical control (insects), Coumaphos, Haematobia irritans, Insect pests, Insecticide application, Insecticides, Population.

18350-68
NORTHERN FOWL MITE CONTROL ON MATURE TURKEYS ON RANGE.
J L Lancaster J S Simco
J Econ Entomol 61(5):1471-1472
15 Oct 1968 421 J822
Biochemistry, Chemical control (insects), Insecticide application, Mites, Ornithonyssus sylviarum, Research, Spraying, Turkeys.

18351-68
RESISTANCE OF CATTLE TO THE TICK BOOPHILUS MICROPLUS (CANESTRINI). II. STAGES OF THE LIFE CYCLE OF THE PARASITE AGAINST WHICH RESISTANCE IS MANIFEST.
J A Roberts
J Porositol 54(4):667-673
Aug 1968 448.8 J824
Boophilus microplus, Cattle, Immunity, Injections, Insect morphology, Ixodides, Larvae, Parasitic insects, Population, Time.

18352-68
CATTLE-MOSQUITO STUDY BEGINS IN SOUTH TEXAS.
D P Sanders
Pest Contr 36(6):32,34,46,48
Jun 1968 449.8 EX8
Aedes sollicitans, Cattle, Culicidae, Insect control.

PARASITES

18353-68
EFFECT OF DESICCATION ON SURVIVAL OF

THE FREE-LIVING STAGES OF TRICHOSTRONGYLUS COLUBRIFORMIS.
F L Andersen N D Levine
J Parasitol 54(1):117-128 REF
Feb 1968 448.8 J824
Cattle, Defoliants, Larvae, Nematodes, Parasitism, Sheep, Temperature, Trichostrongylus eoluhriformis.

Abstract: Desiceation of the 3rd stage larvae of T. colubriformis was beneficial to their survival at temperatures below freezing and at 35 and 50 C, but was indifferent effect at intermediate temperatures of 20 and 25C.

18354-68
A NEW TECHNIQUE FOR THE RECOVERY OF FASCIOLA GIGANTICA EGGS FROM CATTLE FAECES.
P K Bitakaramire
Bull Epizoot Dis Afr 15(4):389-391
Dec 1967 41.8 B872
Cattle, Equipment, Faseiola gigantiea, Feees, Trematoda.

18355-68
AN ELECTRON MICROSCOPE STUDY OF THE TEGUMENT AND ASSOCIATED STRUCTURES OF THE PROCERCOID OF DIPHYLLOBOTHRIUM LATUM (L.).
T Braten
Z Parasitenk 30(1):95-103
1968 442.8 Z33F
Cestoda, Cytology, Diphyllobothrium latum, Eleetron mieroscopes, Epithelium, Morphology. English and german abstraet

Abstract

18356-68
THE FINE STRUCTURE OF THE TEGUMENT OF DIPHYLLOBOTHRIUM LATUM (L.). A COMPARISON OF THE PLEROCERCOID AND ADULT STAGES.
T Braten
Z Parasitenk 30(1):104-112
1968 442.8 Z33F
Cytology, Diphyllobothrium latum, Eleetron microseopy, Epithelium, Histology. English and german abstract

Abstraet

18357-68
CHANGES IN THE EFFICACY OF THREE ANTHELMINTICS DURING THE MATURATION OF A NEMATODE (TRICHINELLA SPIRALIS).
W C Campbell R K Hartman
J Parasitol 54(1):112-116
Feb 1968 448.8 J824
Anthelminties, Drugs, Metamorphosis, Methyridine, Nematodes, Pyrantel tartrate, Stomaeh, Tetramisole, Thiazolyl)-henzimidizole, 2-(4-, Triehinella spiralis.

Abstraet: The results suggest that the mode of aetion of thiabendazole against trichinella is fundamentally different from that of the other two compounds, or that the relationship between efficaey and the route of administration of a given drug ehanges during the maturation phase of trichinella.

18358-68
PATHOLOGICAL CHANGES OF BLOOD DEPENDING ON SEX AND AGE OF RABBITS EXPERIMENTALLY INFECTED WITH A SHEEP STRAIN OF STRONGYLOIDES PAPILLOSUS.
L Chomiez
Acta Parasitol Polon 14(15-27):251-263 REF
1966 436.8 AC8
Aging, Blood analysis, Blood eells, Rabbits, Sex, Strongyloides. English and polish abstraet

Abstraet

18359-68
OBSERVATIONS ON THE EFFECTS OF PYRVINIUM PAMOATE ON STRONGYLOIDES STERCORALIS. (JAP)
R Doi
Jap J Parasitol 16(1):36-42
Feb 1967 436.8 J27
Aneylostoma caninum, Anthelmintics, Pyrvinium pamoate, Strongyloides. English abstraet

Abstraet

18360-68
HYDATID LATEX AGGLUTINATION WITH SCOLEX AND CRUDE POLYSACCHARIDE ANTIGENS.
A Fischman J L Allen
Australian J Exp Biol Med Sci 45(2):221-223
Apr 1967 442.8 AU7
Antigens, Cestoda, Echinoeoeeosis, Serodiagnosis.

Abstraet

18361-68
DIAGNOSIS, TREATMENT, AND PREVENTIVE THERAPY FOR HEARTWORMS.
J W Henderson
Amer Vet Med Ass J 151(12):1737-1739
15 Dec 1967 41.8 AM3
Diagnosis, Dirofilaria immitis, Dogs, Therapeuties.

18362-68
DIROFILARIA IMMITIS PARASITIC IN THE SPINAL CAVITY OF A DOG. (JA
K Hongo
Jap Vet Med Ass J 20(9):381
1967 41.9 J275
Animal diseases, Dirofilaria immitis, Dogs, Nematodes.

18363-68
EXPERIMENTAL INFECTION OF GNOTOBIOTIC TENEBRIO MOLITOR AND WHITE RATS WITH HYMENOLEPIS DIMINUTA (CESTODA: CYCLOPHYLLIDEA).
B B Houser W C Burns
J Parasitol 54(1):69-73
Feb 1968 448.8 J824
Autopsies, Benzalkonium ehloride, Germ-free life, Hymenolepis diminuta, Parasitism, Rats, Tenebrio molitor, Tribolium eonfusum.

Abstraet: T. molitor eggs were sterilized with zephiran ehloride, hatehed, and the larvae and adults reared under germ-free conditions.

18364-68
QUANTITATIVE STUDIES ON THE KINETICS OF ESTABLISHMENT AND EXPULSION OF INTESTINAL NEMATODE POPULATIONS IN SUSCEPTIBLE AND IMMUNE HOSTS. NIPPOSTRONGYLUS BRASILIENSIS IN THE RAT.
E E E Jarrett W F H Jarrett G M Urquhart
Parasitology 58(3):625-639 REF
Aug 1968 448.8 P21
Helminthiasis, Immunity, Kineties, Measurement, Nematodes, Nippostrongylus brasiliensis, Population, Quantitative analysis, Rats, Researeh.

18365-68
STUDIES ON PARASITIC GRANULOMA IN THE DOG. (JAP)
H Kitayama M Ohbayashi H Satoh Y Kitamura
Jap J Parasitol 16(1):28-35
Feb 1967 436.8 J27
Dogs, Granuloma, Histology, Nematodes, Toxoeara eanis. English abstraet

Abstraet

18366-68
EXPERIMENTAL STUDIES IN MICE ON THE THERAPY OF TRICHINELLOSIS (THIABENDAZOLE, NEGUVON, CORTISONE, AZULEN, SERA). (POL)
Z Kozar M Kozar
Acta Parasitol Polon 14(15-27):133-161 REF
1966 436.8 AC8
Drug therapy, Miee, Therapy, Trichinosis. English and polish abstraets

Abstraet

18367-68
THE BLOOD OF RABBITS INFECTED WITH STRONGYLOIDES PAPILLOSUS AFTER 20 SERIAL PASSAGES THROUGH RABBITS.
I Lewandowska
Acta Parasitol Polon 14(15-27):239-250 REF
1966 436.8 AC8
Biochemistry, Blood analysis, Blood eells, Rabbits, Strongyloides. English and polish abstraet

Abstraet

18368-68
REARING LAMBS FREE OF GASTROINTESTINAL NEMATODES.
M E Mansfield J M Lewis G E McKibben
Amer Vet Med Ass J 151(9):1182-1185 REF
01 Nov 1967 41.8 AM3
Animal hushandry, Lambs, Sheep, Strongyloidiasis.

Abstraet: Lambs free of gastrointestinal nematodes were produced from infected-parent stoek. Ewes were shorn, and udders washed before lambs nursed. The day-old lambs and their mothers were eonfined in pens with elevated, slotted floors. The lambs were allowed on pasture at approximately 12 weeks of age. Strongyloid eggs were first observed in lambs when they were approximately 14 months old.

18369-68
LESIONS CAUSED BY THE HEPATIC TREMATODE, METORCHIS CONJUNCTUS, COBBOLD, 1860; A COMPARATIVE STUDY IN CARNIVORA.
J H L Mills R S Hirth
J Small Anim Pract 9(1):1-6 REF
Jan 1968 41.8 J8292
Autopsies, Cats, Dogs, Liver, Metorchis conjunetus, Parasitism, Trematoda, Wildlife. English, german and french abstract

Abstraet

18370-68
ON THE METACERCARIA OF PROSTHOGONIMUS PUTSCHKOWSKII IN SYMPETRUM DECOLORATUM (ODONATA: INSECTA) WITH OBSERVATIONS ON ITS DEVELOPMENT IN CHICKS.
G S Mishra B P Pande
Indian J Vet Sci Anim Husb 37(3):156-164 REF
Sep 1967 41.8 IN22
Autopsies, Chieks, Metaeercaria, Odonata, Prosthogonimus putsehkowskii, Sympetrum decoloratum, Trematoda.

Abstraet

18371-68
HELMINTHIC INFESTATIONS OF PIGLETS WITH REFERENCE TO LESIONS ENCOUNTERED.
G S Mishra B P Pande
Indian J Vet Sci Anim Husb 37(3):143-149 REF
Sep 1967 41.8 IN22
Asearis lumbrieoides, Asearops strongylina, Autopsies, Baby pigs, Cystieereus, Oesophagostomum dentatum, Opisthorehis, Swine.

18372-68
STUDIES ON THE SPRING PHENOMENON IN OVINE HELMINTHIASIS. I. SPRING RISE IN STABLED SHEEP.
B G Proeter H C Gibbs
Can J Comp Med Vet Sci 32(1):359-365
Jan 1968 41.8 C162
Haemonehus eontortus, Helminthiasis, Larvae, Nematodes, Ova, Parasitism, Sheep.

Abstract: Preparturient treatment of ewes with thiabendazole suppressed spring rise but failed to arrest completely the faeeal shedding of nematode ova. Larval studies revealed that H. eontortus was the major eontribution to the spring rise of faeeal on a output.

18373-68
A TEMPERATURE STUDY OF THE OVERWINTERING SITE OF THE SHEEP BOT FLY OESTRUS OVIS L.

18374-68

C E Rogers F W Knapp D Cook M V Crowe
J Parasitol 54(1) 164-165
Feb 1968 448.8 J824
Hibernation, Oestrus ovis, Parasitism, Sheep, Temperature

Abstract: Investigations of the overwintering habits of the sheep bot fly necessitated obtaining data on temp of the nasal passages and sinuses. Temperatures of the nasal passage varied directly with the depth at which the readings were taken and with the atmospheric temperatures.

18374-68
ANTIHELMINTHIC ACTIVITY OF SOME CARBAMATE DERIVATIVES. (SP)
F Sanz R Jurado A Moral A Relimpio
Rev Iberica Parasitol 26(4):353-359 REF
Oct 1966 436.8 R32
Anthelmintics, Carbamates, Drug therapy, Guinea pigs, Helminths, Mice, Rats. English and spanish abstract

Abstract

18375-68
PARASITIC DEVELOPMENT OF OBELISCOIDES CUNICULI IN RABBITS.
A E Sollod T J Hayes E J L Soulsby
J Porositol 54(1):129-132 REF
Feb 1968 448.8 J824
Larvae, Metamorphosis, Nematodes, Obeliscoides cuniculi, Parasitism, Rabbits, Stomach, Trichostrongylosis.

Abstract: Studies on development of O. cuniculi infections in New Zealand white rabbits showed that the 2nd ecdysis was complete within 1 hr. of infection and the parasitic 3rd stage larvae penetrated into the gastric mucosa within 24 hours. Simularities between the parasitic development of other trichostrongyles and O. cuniculi are discussed.

18376-68
HELMINTHS AS VEHICLES AND SYNERGISTS OF MICROBIAL INFECTIONS.
A W Woodruff
Roy Soc Trop Med Hyg Trans 62(3):446-452 REF
1968 448.9 R813
Ascariasis, Encephalomyocarditis, Epidemiology, Escherichia coli, Helminthiasis, Hog cholera, Human diseases, Infectious diseases, Medicine, Parasitism, Poliomyclitis, Rats, Strongyloides stercoralis, Swine influenza virus, Toxocara canis, Trichinella spiralis.

COMMODITY PROTECTION

STORAGE DISEASES

18377-68
FUNGI IN STORED PRODUCTS.
J H Clarke
Trop Stored Prod Inform 15:3-14 REF
1968 421 T752
Aflatoxin, Agricultural products, Aspergillus, Fungi, Grain, Methodology, Microorganisms, Mycology, Mycotoxicosis, Penicillium, Storage diseases, Temperature.

ARTHROPODS

18378-68
PROPOSED FEDERAL FORMOSAN TERMITE QUARANTINE SAFEGUARDS. BUYER, SELLER.
G G Rohwer
Pest Contr 36(2):29,31
Feb 1968 449.8 EX8
Coptotermes formosanus, Household insects, Insect control, Lumber, Quarantine, Soils, Termites, Timber.

RODENTS AND OTHER PESTS

18379-68
ISOLATION AND PURIFICATION OF METABOLITES FOUND IN THE URINE OF MALE RATS FED ALDRIN AND DIELDRIN.
A K Klein J D Link N F Ives
Ass Offic Anal Chem J 51(4):895-898
Jul 1968 381 AS7
Aldrin, Dieldrin, Metabolites, Rats, Research, Sterilization, Urine.

18380-68
A METHOD FOR EVALUATION OF VACCINES CONTAINING PASTEURELLA MULTOCIDA.
E E Ose O A Muenster
Amer J Vet Res 29(9):1863-1866
Sep 1968 41.8 AM3A
Animal diseases, Antibodies, Antigens, Cattle, Immunity, Immunization, Lethal factors, Mice, Pasteurella multocida, Vaccines.

18381-68
ON THE DEVELOPMENT OF CYSTICERCUS FASCIOLARIS IN ALBINO RAT LIVER AND ITS REACTION ON THE HOST TISSUE.
B B Singh B V Rao
Ceylon Vet J 15(4):121-129 REF
Dec 1968 41.8 C33
Animal diseases, Animal histology, Blood, Cells, Cysts, Cytoplasm, Larvae, Morphology, Research.

18382-68
EFFECT OF RATION MODIFICATIONS ON AFLATOXICOSIS IN THE RAT.
G C Todd W T Shalkop K L Dooley H G Wiseman
Amer J Vet Res 29(9):1855-1861 REF
Sep 1968 41.8 AM3A
Aflatoxicosis, Animal physiology, Antibiotics, Carbohydrates, Cells, Cytoplasm, Histology, Rats, Vitamins.

MICROBIAL CONTAMINATION

18383-68
ESTIMATION OF RADIATION RESISTANCE VALUES OF MICROORGANISMS IN FOOD PRODUCTS.
A Anellis S Werkowski
Appl Microbiol 16(9):1300-1308 REF
Sep 1968 448.3 AP5
Clostridium botulinum, Dosage, Food, Immunity, Kinetics, Microbiology, Microorganisms, Radiation, Statistical methods.

18384-68
DEGRADATION OF DIAZINON BY SYNERGISTIC MICROBIAL ACTION.
H B Gunner B M Zuckerman
Nature 217(5134):1183-1184
23 Mar 1968 472 N21
Arthrobacter, Biochemistry, Carbon isotopes, Chemical reactions, Diazinon, Insecticides, Metabolism, Microbiology, Microorganisms, Streptomyces.

ENVIRONMENTAL CONTAMINATION

18385-68
PREVENTING FISH AND WILDLIFE LOSSES.
E G Hunt
Aerial Appl 5(11):4-6
Nov 1967 333.8 AE8
Fish conservation, Pesticide application, Pesticide residues, Wildlife conservation.

RESIDUES

18386-68
THE EFFECT OF ENVIRONMENTAL AND BIOLOGICAL FACTORS ON THE PERSISTENCE OF MALATHION APPLIED IN LOW VOLUME TECHNICAL AND EMULSIFIABLE CONCENTRATE FORMS TO COTTON PLANTS.
T M Awad
Diss Abstr Sect B 29(2):644B
Aug 1968 Z5055.U49D53
Biology, Cotton, Environment, Insecticides, Malathion, Pesticide residues.

18387-68
DETERGENTS.
S K Banerji
Water Pollut Contr Fed J 40(6):939-948 REF
Jun 1968 293.8 SE8
Algae, Detergents, Fish, Rats, Water pollution, Water treatment.

18388-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 33(173):12588
05 Sep 1968 L1.451
Agricultural chemistry, Alfalfa, Hay, Insecticide residues, Phorate.

18389-68
COMPARATIVE CS-137 CONTENT OF AGRICULTURAL CROPS GROWN IN A CONTAMINATED SOIL.
E D Evans A J Dekker
Can J Plant Sci 48(2):183-188
Mar 1968 450 C16
Cesium isotopes, Field crops, Forage plants, Grain, Grasses, Plant contamination, Radioactive contamination, Soil contamination, Sugar beets, Vegetables.

18390-68
EFFECTS ON GROUDWATER. MUNICIPAL SOURCES.
B B Ewing L S Lau
Water Pollut Contr Fed J 40(6):1075-1081 REF
Jun 1968 293.8 SE8
Detergents, Industry, Insecticides, Saline water, Water analysis, Water pollution, Water supply.

18391-68
RESPONSE OF EARLY-WEANED PIGS TO AMINO ACID SUPPLEMENTATION OF CORN DIETS.
J T Gallo W G Pond J V Logomarsino
J Anim Sci 27(4):1000-1005 REF
Jul 1968 49 J82
Acids, Amino acids, Biology, Corn, Swine, Weaning.

18392-68
MICROBIOLOGY. GASTROINTESTINAL OUTBREAKS.
E E Geldreich
Water Pollut Contr Fed J 40(6):1052-1068 REF
Jun 1968 293.8 SE8
Bacteria, Epidemiology, Gastroenteritis, Gastrointestinal system, Human diseases, Microbiology, Viruses, Water pollution.

18393-68
DETOXIFICATION OF PESTICIDAL RESIDUES IN FISH AND SHELLFISH.
A B Hallab
Diss Abstr Sect B 29(2):649B
Aug 1968 Z5055.U49D53
Fish, Pesticide residues, Shellfish, Toxicology.

18394-68
EFFECTS ON MICROFAUNA - FRESHWATER.
L D Jensen
Water Pollut Contr Fed J 40(6):1042-1047
Jun 1968 293.8 SE8

Aquatic animals, Ecology, Streams, Water, Water pollution.

18395-68

WATER POLLUTION. EFFECTS OF POLLUTION ON FISH LIFE. GENERAL ASPECTS OF WATER POLLUTION BIOLOGY.

M Katz A K Sparks G I. Pederson C E Woelke J Woodey

Water Pollut Contr Fed J 40(6):1007-1033 REF

Jun 1968 293.8 SE8

Biology, Detergents, Fish, Metals, Pesticides, Temperature, Water analysis, Water pollution.

18396-68

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. DIURON.

J K Kirk

Fed Regist 33(128):9609

02 Jul 1968 L1.451

Chemicals, Diuron, Food plants, Herbicides, Pesticide residues.

18397-68

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. ALPHANAPHTHALENEACETIC ACID.

J K Kirk

Fed Regist 33(128):9609-9610

02 Jul 1968 L1.451

Chemicals, Food plants, Naphthaleneacetic acid, Pesticide residues, Pesticides, Plant regulators.

18398-68

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. TRIFLURALIN.

J K Kirk

Fed Regist 33(128):9610

02 Jul 1968 L1.451

Chemicals, Food plants, Herbicides, Pesticide residues, Trifluralin.

18399-68

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. ETHYL 4,4'-DICHLOROBENZILATE.

J K Kirk

Fed Regist 33(130,PT.1):9707-9708

04 Jul 1968 L1.451

Chemicals, Chlorobenzilate, Food plants, Pesticide residues, Pesticides.

18400-68

NIAGARA NIA-10242 INSECTICIDE RESIDUES: THEIR PERSISTENCE IN COASTAL BERMUDAGRASS, CORN, AND SILAGES, AND THEIR EFFECT, FED IN SILAGE, ON LACTATING COWS.

D B Leuck M C Bowman J C Johnson E W Beck R S Lowery

J Econ Entomol 61(5):1349-1352 REF

15 Oct 1968 421 J822

Biochemistry, Cattle, Corn, Cynodon dactylon, Dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate, 2,3-, Feed, Insecticide residues, Milk analysis, Silage, Tables (data).

18401-68

INSECTICIDE RESIDUES IN PEST CONTROL.

L Lykken

Agr Chem 23(8):18-20,22

Aug 1968 381 AG8

Accident prevention, Animals, Biochemistry, Chemical control (pests), Decomposition, Immunity, Insecticide residues, Insecticides, Plant hardiness, Plants, Public health, Time.

18402-68

MACROINVERTEBRATES. FRESH WATER.

K M Mackenthun L E Keup

Water Pollut Contr Fed J 40(6):1033-1042 REF

Jun 1968 293.8 SE8

Environment, Invertebrates, Pesticides, Radioactivity, Water, Water pollution.

18403-68

RESIDUES OF DIAZINON, COUMAPHOS, CIODRIN, METHOXYCHLOR, AND ROTENONE IN COW'S MILK FROM TREATMENTS SIMILAR TO THOSE USED FOR ECTOPARASITE AND FLY CONTROL ON DAIRY CATTLE, WITH NOTES ON SAFETY OF DIAZINON AND CIODRIN TO CALVES.

J G Matthysse D Lisk

J Econ Entomol 61(5):1394-1398 REF

15 Oct 1968 421 J822

Accident prevention, Biochemistry, Chemical control (insects), Ciodrin, Coumaphos, Dairy cattle, Diazinon, Insecticide application, Insecticide residues, Methoxychlor, Milk analysis, Research, Rotenone.

18404-68

AGRICULTURAL (LIVESTOCK) WASTES.

J R Miner

Water Pollut Contr Fed J 40(6):1150-1158 REF

Jun 1968 293.8 SE8

Bacteria, Cattle, Fertilizers, Laboratories, Livestock, Poultry, Water pollution.

18405-68

ANAEROBIC PROCESSES. MICROBIOLOGY AND MECHANISM.

F G Pohland

Water Pollut Contr Fed J 40(6):948-955 REF

Jun 1968 293.8 SE8

Anaerobic bacteria, Kinetics, Mechanics, Microbiology, Water, Water pollution.

18406-68

NOTE ON THE DETERMINATION OF CARBARYL RESIDUES IN HEN SKIN.

E W Pol

Ass Offic Anal Chem J 51(4):901

Jul 1968 381 AS7

Anoplura, Carbaryl, Chickens, Dimethyl sulfoxide, Extracts, Hexane, Insecticides, Methylene chloride, Skin.

18407-68

OXYGEN SAG AND STREAM SELF-PURIFICATION.

E C Tsivoglov R E DeLoach

Water Pollut Contr Fed J 40(6):1068-1071 REF

Jun 1968 293.8 SE8

Streams, Temperature, Water pollution, Water treatment.

18408-68

ANALYTICAL PROBLEMS: MERCURY IN THE GENERAL ENVIRONMENT.

G Widmark

Oikos (SUP.9):9-10

1967 410 Ol4

Assay, Chromatography, Environment, Fungicides, Inorganic compounds, Mercury, Metabolites, Pesticide residues, Research.

TOXICOLOGY

18409-68

STUDIES ON THE LABORATORY SOILING OF MILKING EQUIPMENT.

B Bacic C M Cousins L F L Clegg

J Dairy Res 35(2):247-256

Jun 1968 44.8 J823

Antiseptics, Bacteria, Equipment, Laboratories, Milk.

18410-68

THE TOXICITY AND DISTRIBUTION OF MERCURY.

H Berlin

Oikos (SUP.9):25-26

1967 410 Ol4

Absorption, Autoradiography, Food, Hygiene, Mercury, Mercury compounds, Methodology, Mice, Research, Surveys, Toxicology.

18411-68

SWEDISH STUDIES OF GAME THAT HAD BEEN FOUND DEAD AS WELL AS SPECIMENS THAT HAD BEEN SHOT.

K Borg

Oikos (SUP.9):38

1967 410 Ol4

Agriculture, Biochemistry, Forestry, Game animals, Mercury compounds, Poisoning, Research, Seeds, Wildlife diseases.

18412-68

PYRROLIZIDINE ALKALOID POISONING IN CALVES.

M E Fowler

Amer Vet Med Ass J 152(8):1131-1137 REF

15 Apr 1968 41.8 AM3

Alfalfa, Alkaloids, Amsinckia intermedia, Dairy cattle, Feed, Fibrosis, Liver, Mortality, Pyrrolizidine, Senecio vulgaris, Toxicology.

18413-68

MANGANESE TOXICITY IN CELERY.

P A Gallagher

Nature 216(5113):391-392

28 Oct 1967 472 N21

Aluminum, Celery, Hydrogen-ion concentration, Leaves, Manganese, Plant growth inhibitors, Plant physiology, Soil series, Toxicology.

18414-68

TOXIC BLUE-GREEN ALGAE IN SASKATCHEWAN.

U T Hammer

Can Vet J 9(10):221-229 REF

Oct 1968 41.8 R3224

Algae, Aquatic birds, Cyanophyta, Fish, Poisoning, Wildlife. French summary

18415-68

ON THE PRINCIPAL WAY OF ATTACK OF ROTENONE IN FISH.

K-e Oberg

Arkiv Zool 18(3-4):217-220 REF

1967 410.9 SV22

Animal physiology, Biochemistry, Fish, Rotenone, Toxicology.

18416-68

ISOLATION OF A NEW TOXIN FROM CULTURES OF ASPERGILLUS FLAVUS.

J V Rodricks A D Campbell M J Verrett K R Henery-Logan

Nature 217(5129):668

17 Feb 1968 472 N21

Aflatoxin, Aspergillus flavus, Chick embryos, Culture media, Infrared spectra, Injections, Metabolites, Research, Toxins.

18417-68

TOXIC EFFECTS OF ODOROUS TRACE ORGANICS.

J W Smith S G Grigoropoulos

Amer Water Works Ass J 60(8):969-979 REF

Aug 1968 292.9 AM32J

Fish, Odors, Organic compounds, Pesticides, Toxicology, Water analysis, Water pollution.

Abstract

18418-68

THE TOXICOLOGY OF DIFFERENT ORGANOMERCURIALS USED AS FUNGICIDES.

A Swensson

Oikos (SUP.9):27-29

1967 410 Ol4

Adsorption, Biochemistry, Fungicides, Mammals, Mercury compounds, Poisoning, Toxicology.

18419-68

MORPHOLOGICAL AND PHYSIOLOGICAL ASPECTS OF SPOROGONY AND OOCYST VIABILITY IN THE PROTOZOAN PARASITES EIMERIA TENELLA AND EIMERIA STIEDAE (COCCIDIA).

18420-68

G F Wagenbach
Diss Abstr Sect B 28(11):4809B
May 1968 Z5055.U49D53
Chickens, Deoxyribonucleic acid, Eimeria stiedae, Eimeria tenella, Insect physiology, Rabbits, Ribonucleic acid, Sodium hypochlorite

18420-68
A REVIEW OF DRUG TOXICITY IN THE CAT.
G T Wilkinson
J Small Anim Pract 9(1):21-32 REF
Jan 1968 41.8 J8292
Benzyl benzoate, Cats, Chlorinated hydrocarbons, Drug therapy, Organophosphorus compounds, Rotenone, Toxicology. English, german and french abstract

Abstract

18421-68
EFFECTS OF PLANT GROWTH REGULATORS AND OTHER COMPOUNDS ON FLOW OF LATEX IN HEVEA BRASILIENSIS.
F D Abraham S G Boatman G E Blackman R G Powell
Ann Appl Biol 62(1):159-173 REF
Aug 1968 442.8 AN72
Biochemistry, Chemicals, Hevea brasiliensis, Latex, Plant physiology, Plant regulators.

18422-68
EFFECT OF CULTURE FILTRATES OF PSEUDOMONAS PHASEOLICOLA ON THE GROWTH OF EXCISED ROOTS AND CALLUS TISSUE CULTURES OF BEAN. (ABSTRACT).
Y P S Bajaj A W Saettler
Phytopathology 58(8):1041-1042
Aug 1968 464.8 P56
Beans, Biochemistry, Culture media, Filters, Plant physiology, Pseudomonas phaseolicola, Roots, Tissues.

18423-68
THE SELECTIVITY AND ACTIVITY OF S-TRIAZINE HERBICIDES IN BANANA PLANTS.
R C Barba
Diss Abstr Sect B 29(2):431B-432B
Aug 1968 Z5055.U49D53
Bananas, Biochemistry, Plant physiology, Plant translocation, S-triazine.

18424-68
INFLUENCE OF MICRO-ORGANISMS ON THE DISTRIBUTION IN ROOTS OF PHOSPHATE LABELLED WITH PHOSPHORUS-32.
D A Barber J Sanderson R S Russell
Nature 217(5129):644
17 Feb 1968 472 N21
Autoradiography, Biochemistry, Ions, Microorganisms, Phosphates, Phosphorus isotopes, Plant diseases, Plant translocation, Roots.

18425-68
EFFECT OF THIRAM UPON GLUCOSE CATABOLISM BY FUSARIUM OXYSPORUM. (ABSTRACT).
J J Bates B G Tweedy
Phytopathology 58(8):1042
Aug 1968 464.8 P56
Biochemistry, Fungi, Fusarium oxysporum, Glucose, Metabolism, Plant physiology, Thiram.

18426-68
INTERACTION OF GROWTH REGULATORS IN THE SENESCENCE OF NASTURTIUM LEAF DISKS.
L Beevers F S Guernsey
Nature 214(5091):941-942
27 May 1967 472 N21
Biochemistry, Gibberellic acid, Kinetin, Leaves, Plant hormones, Plant physiology, Plant regulators, Research, Ribonucleic acid, Trapaeolum majus.

18427-68
PECTOLYTIC ENZYME PRODUCTION BY PHYMATOTRICHUM OMNIVORUM. (ABSTRACT).
H S Black
Phytopathology 58(8):1044
Aug 1968 464.8 P56
Fungi, Phymatotrichum omnivorum, Plant enzymes, Plant physiology.

18428-68
INORGANIC COMPOSITION AND MICROSCOPY OF CITRUS ROOTS GROWN UNDER SEVERAL COPPER AND SOIL AMENDMENT CONDITIONS.
E A Brams
Diss Abstr Sect B 29(1):12B-13B
Jul 1968 Z5055.U49D53
Chemicals, Citrus, Copper, Inorganic compounds, Morphology, Plant translocation, Roots, Soils, Tissues, Xylem.

18429-68
GERMINATION OF FOMES APPLANATUS BASIDIOSPORES. (ABSTRACT).
T S Jr. Brown
Phytopathology 58(8):1044
Aug 1968 464.8 P56
Fomes applanatus, Plant physiology, Seed germination, Spores.

18430-68
AUXIN EFFECTS ON THE ACTIVITY OF PECTINTRANSELIMINASE IN VITRO.
T A Bull
Phytochemistry 7(2):209-211
Feb 1968 450 P5622
Assay, Culture media, Pectin transeliminase, Plant growth inhibitors, Plant hormones, Plant metabolism.

18431-68
EFFECT OF ANAEROBIOSIS ON GERMINATION AND VIABILITY OF RHIZOPUS STOLONIFER SPORANGIOSPORES. (ABSTRACT).
J Bussel P M Buckley N F Sommer
Phytopathology 58(8):1046
Aug 1968 464.8 P56
Anaerobic bacteria, Plant physiology, Rhizopus stolonifer, Seed germination, Spores.

18432-68
AUXOTROPHIC MUTANTS OF PHYTOPHTHORA SPECIES. (ABSTRACT).
J Castro G A Zentmyer W L Belser
Phytopathology 58(8):1046
Aug 1968 464.8 P56
Fungi, Mutations, Phytophthora capsici, Phytophthora drechsleri, Plant physiology.

18433-68
LABORATORY TESTS OF FUNGICIDES AGAINST PERONOSPORA PARASITICA (PERS. EX. FR.) FR.
A G Channon R J Hampson
Ann Appl Biol 62(1):23-33 REF
Aug 1968 442.8 AN72
Biochemistry, Fungicides, Laboratories, Peronospora parasitica, Research.

18434-68
THE EFFECT OF SPECIES OF ALLIUM ON SOIL BACTERIA IN RELATION TO GERMINATION OF SCLEROTIA OF SCLEROTIUM CEPIVORUM BERK.
J R Coley-Smith D J Dickinson J E King R W Holt
Ann Appl Biol 62(1):103-111 REF
Aug 1968 442.8 AN72
Allium, Antibiotics, Bacterial diseases (plants), Plant biochemistry, Plant extracts, Sclerotium cepivorum, Soil bacteria.

18435-68
DISPERSAL PATTERNS OF MONILINIA LAXA SPORES IN PEACH, PRUNE, APRICOT, AND ALMOND TREES DURING EARLY SPRING. (ABSTRACT).
J B Corbin
Phytopathology 58(8):1047
Aug 1968 464.8 P56
Almonds, Apricots, Monilinia laxa, Peaches, Prunes, Seed dissemination, Spores, Temperature, Trees.

18436-68
EFFECT OF TEMPERATURE ON GERMINATION OF PODOSPHAERA LEUCOTRICHA CONIDIA. (ABSTRACT).
D L Coyier
Phytopathology 58(8):1047-1048
Aug 1968 464.8 P56
Fungus diseases (plants), Podosphaera leucotricha, Seed germination, Temperature.

18437-68
PLANT GROWTH REGULATIONS IN DITYLENCHUS DIPSACI, DITYLENCHUS TRIFORMIS AND HOST TISSUES.
H G Cutler
Diss Abstr Sect B 28(11):4445B
May 1968 Z5055.U49D53
Biochemistry, Chloroform, Chromatography, Ditylenchus dipsaci, Ditylenchus triformis, Extracts, Infrared spectra, Methanol, Plant physiology, Plant regulators, Tissues. The hosts were: Pyrenochaeta terrestris and Medicago sativa. No growth promoting substances were detected in turbatrix aceti.

18438-68
CHARACTERISTICS OF A SEASONAL POPULATION OF AIRBORNE FOMES FOMENTARIUS BASIDIOSPORES. (ABSTRACT).
R C DeGroot J L Prentice
Phytopathology 58(8):1048
Aug 1968 464.8 P56
Basidiospores, Fomes fomentarius, Plant physiology, Population statistics, Properties, Reproduction.

18439-68
IDENTIFICATION OF XANTHOMONAS SPECIES BY ACRYLAMIDE-GEL DISC ELECTROPHORESIS OF SOLUBLE BACTERIAL PROTEINS. (ABSTRACT).
T A El-Sharkawy D Huisingh
Phytopathology 58(8):1049
Aug 1968 464.8 P56
Acrylamide, Bacteria, Electrophoresis, Gels, Plant biochemistry, Proteins, Xanthomonas.

18440-68
USE OF FLUORESCENT BRIGHTENER AS AID TO STUDIES OF FUNGISTASIS AND NEMATOPHAGOUS FUNGI IN SOIL.
J Eren D Pramer
Phytopathology 58(5):644-646 REF
May 1968 464.8 P56
Arthrobotrys conoides, Fluorescent dyes, Nematodes, Soil fungi.

18441-68
SWEDISH RESTRICTIONS CONCERNING THE USE OF MERCURY COMPOUNDS FOR SEED DISINFECTION.
H Esbo
Oikos (SUP.9):18
1968 410 O14
Antiseptics, Biochemistry, Drug therapy, Mercury compounds, Seed-borne plant diseases, Seedlings.

18442-68
EFFECT OF FUNGAL ESTROGEN F-2 ON THE PRODUCTION OF PERITHECIA BY FUSARIUM ROSEUM GRAMINEARUM'. (ABSTRACT).
C P Eugenio
Phytopathology 58(8):1049-1050
Aug 1968 464.8 P56
Culture media, Estrogens, Fungi, Fusarium roseum, Perithecia, Plant physiology.

18443-68
THE INTERRELATIONSHIPS OF RHIZOCTONIA SOLANI AND HELMINTHOSPORIUM VAGANS, NITROGEN, AND VARIETY ON ALKALOIDS IN FESTUCA ARUNDINACEA. (ABSTRACT).
C E Gentry L Henson R A Chapman
Phytopathology 58(8):1051
Aug 1968 464.8 P56
Alkaloids, Biochemistry, Festuca arundinacea, Helminthosporium vagans, Nitrogen, Rhizoctonia solani.

18444-68
DISC ELECTROPHORESIS OF SONIC EXTRACTS OF FIVE PHYTOPATHOGENIC BACTERIA. (ABSTRACT).
H S Gill M N Khare
Phytopathology 58(8):1051-1052
Aug 1968 464.8 P56
Bacteria, Biochemistry, Electrophoresis, Erwinia, Plant extracts, Xanthomonas.

18445-68
EXTENT OF ASPERGILLUS FLAVUS AND FUSARIUM OXYSPORUM GERMINATION IN SOIL AND IN THE RHIZOSPHERE OF PEANUT. (ABSTRACT).
G J Griffin
Phytopathology 58(8):1052
Aug 1968 464.8 P56
Aspergillus flavus, Fusarium oxysporum, Peanuts, Plant physiology, Rhizosphere, Seed germination, Spores.

18446-68
INDUCTION OF FLORAL HYPERSEXUALITY IN IBERIS AMARA L. (CRUCIFERES) INFLUENCED BY 2,4-DICHLOROPHENOXYACETIC ACID. (FR
M-C Guiet
Acad Sci Compt Rend Ser D Sci Nat 265(20):1475-1484
13 Nov 1967 505 P21
Cruciferae, D, 2,4-, Plant biochemistry, Plant morphology, Plant reproduction. French summary

18447-68
ELECTRON MICROSCOPIC STUDIES OF THE NERVOUS SYSTEM OF TRICHODORUS CHRISTIEI (ABSTRACT).
H Hirumi T Chen
Phytopathology 58(8):1053
Aug 1968 464.8 P56
Electron microscopes, Nervous system, Plant physiology, Research, Trichodorus christiei.

18448-68
EFFECT OF DEFOLIANTS ON CARBOHYDRATE AND NITROGEN METABOLISM IN COTTEN PLANT LEAVES. (RUS)
A I Imamaliev P K Baretas M I Rizajeva
Fiziol Rast 15(1):74-83 REF
Jan 1968 450 F58
Carbohydrates, Cotton, Decomposition, Defoliants, Leaves, Nitrogen, Plant metabolism. English summary

18449-68
COMPARISON OF THE EFFECTS OF GIBBERELLIC ACID AND AFLATOXIN IN GERMINATING SEEDS.
H C Jones H S Black A M Altschul
Nature 214(5084):171-172 REF
08 Apr 1967 472 N21
Aflatoxin, Cotton, Deoxyribonucleic acid, Gibberellic acid, Ribonucleic acid, Seed germination, Seeds.

18450-68
SURVIVAL AND GROWTH OF FOMES ANNOSUS AT HIGH CONCENTRATIONS OF BORAX. (ABSTRACT).
J W Koenigs
Phytopathology 58(8):1056
Aug 1968 464.8 P56
Agar, Biochemistry, Borax, Fomes annosus, Plant hardiness, Plant physiology.

18451-68
RED PINE MEEDLE STRUCTURE.
S L Krugman N B Critchfield
Nature 217(5129):685-686
17 Feb 1968 472 N21
Biochemistry, Greenhouse culture, Herbicides, Leaves, Pinus resinosa, Plant anatomy, Plant physiology, Seedlings. In relation to response to herbicides.

18452-68
TELIOSPORE GERMINATION OF PUCCINIA RECONDITA F. SP. TRITICI (ABSTRACT).
T A Kucharek H C Jr. Young
Phytopathology 58(8):1056
Aug 1968 464.8 P56
Fungus diseases (plants), Plant physiology, Puccinia recondita, Seed germination, Teliospores, Wheat.

18453-68
ACTIVE UPTAKE OF HELMINTHOSPORIUM CARBONUM TOXIN AND ITS EFFECT ON CO2 DARK FIXATION BY CORN. (ABSTRACT).
M S Kuo R P Scheffer
Phytopathology 58(8):1056
Aug 1968 464.8 P56
Absorption, Carbon dioxide, Corn, Helminthosporium carbonum, Metabolism, Plant physiology, Plant translocation, Toxicology.

18454-68
PHOSPHORUS CONTENT DURING DEVELOPMENT OF CLAVICEPS PURPUREA.
J Kybal J Majer I Komersova W D Wani
Phytopathology 58(5):647-650 REF
May 1968 464.8 P56
Claviceps purpurea, Fungi, Phosphorus, Poisonous fungi.

18455-68
SPORULATION OF CEPHALOSPORIUM GREGATUM ON NATURALLY INFESTED SOYBEAN STRAW. (ABSTRACT).
P Y Lai J M Dunleavy
Phytopathology 58(8):1056-1057
Aug 1968 464.8 P56
Cephalosporium gregatum, Plant physiology, Seed germination, Soybeans, Spores, Straw.

18456-68
A BIOCHEMICAL ROLE FOR BORON.
S G Lee
Diss Abstr Sect B 29(1):45B
Jul 1968 Z5055.U49D53
Biochemistry, Boron, Electrophoresis, Enzymes, Leaves, Plant metabolism, Sunflowers.

18457-68
LOCATION OF UNIQUE SEQUENCES IN TOBACCO MOSAIC VIRUS RIBONUCLEIC ACID.
S Mandeles
J Biol Chem 243(13):3671-3674 REF
10 Jul 1968 381 J824
Dodecyl sodium sulfate, Mosaic (tobacco), Plant biochemistry, Proteins, Ribonucleic acid, Tobacco, Virus diseases (plants).

18458-68
ELECTRON MICROGRAPHS OF RHIZOPUS STOLONIFER SPORANCIOSPORES SUBJECTED TO CHILLING. (ABSTRACT).
T T Matsumoto P M Buckley N F Sommer
Phytopathology 58(8):1059
Aug 1968 464.8 P56
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A E Harvey
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